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Tier 2 Geotechnical and Geoenvironmental Report

Site: Residential School, Heronsbridge,
Bridgend

Prepared For: Kier Construction
Issue Date: March 2026

Job No: 25-430-CA

REPORT TITLE : **Tier 2 Geoenvironmental and Geotechnical Report: Proposed School, Heronsbridge, Bridgend**

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Executive Summary	
Site Location and Proposed Development	<i>The study site locates to the west of Technology Drive, Bridgend. The site centres approximately on National Grid Reference 290180 178240.</i>
Desk Study	<i>A Desk Study was completed for the site in October 2023 by Hydrock (Ref: 26361-HYD-XX-XX-RP-GE-1000).</i>
Karst Related Subsidence	<i>The study site locates in an area known to be susceptible to karst related subsidence.</i>
Ground Conditions	<i>Due to karst, bedrock was encountered between 4.0m and 30.5m below ground level.</i>
Contamination of Concern	<i>Soil chemical testing did not detect any determinants at concentrations in excess of the published Generic Assessment Criteria (GAC) for a residential setting with plant uptake. In respect to Human Health, the site is considered suitable for its proposed end use without remediation.</i>
Foundation Solution	<i>Due to the risk of karst related subsidence at the site, structural areas should be treated by compaction grouting prior to construction. Compaction grout treatment should be designed and executed by specialist grouting contractors/consultants. Following compaction grouting, and any earthworks performed in accordance with Series 600 of the Specification for Earthworks, a rigid foundation with a span and cantilever capacity of 3m with a cantilever effect on corners of 1.5m should perform satisfactorily with foundation loads of 100 kN/m².</i>
External Areas	<i>TFW Group Limited understand that the client is currently undertaking an assessment of cost and risk to determine whether external areas will be stabilised by grout treatment or protected by more conservative means such as structural geogrid with a budget for ongoing maintenance. As a minimum, a geotextile catch-net should be present in external areas to protect against sudden surface subsidence.</i>

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Drawing 01 Site Investigation Layout

SECTION 1 Introduction & Proposed Development

1.1 Background

TFW Group Limited have been retained by Kier Construction Limited to investigate the site of a proposed new school at Heronsbridge, Bridgend. The proposed layout can be seen in **Figure 1.1**.

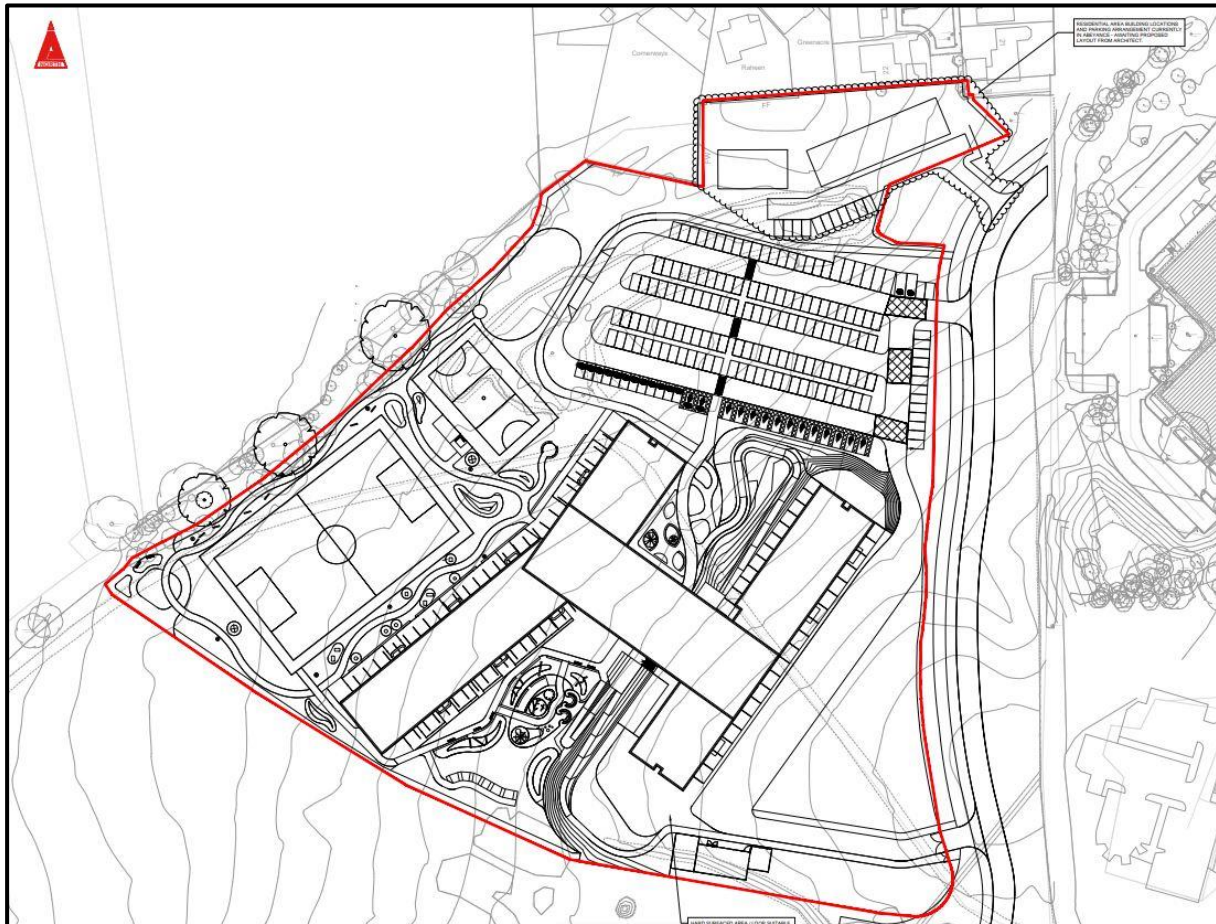


Figure 1.1 Proposed Site Layout

TFW Group Ltd (Terra Firma) have been commissioned by the Client to undertake a Tier 2 Geotechnical and Geoenvironmental Report.

A Tier 1 (Desk Study) was completed by Hydrock in 2024. The findings of the Tier 1 Assessment are summarised in Section 2 of this report.

This report contains a Tier 2 assessment (Site Investigation) including a Generic Quantitative Geoenvironmental Risk Assessment and Geotechnical Ground Investigation.

1.2 Objectives

Land Contamination Risk Management (LCRM) guidance provided by the Environment Agency advocates using a tiered approach. This comprises Tier 1; the Preliminary Risk Assessment, Tier 2; the Generic Quantitative Risk Assessment and Tier 3; the Detailed Quantitative Risk Assessment. As each tier is completed a decision is made whether it is necessary to advance to the next tier.

In addition to LCRM, geotechnical aspects of the development also need to be considered and are approached in a similar manner, with the risks identified in the preliminary assessment, and then investigated through subsequent phase of investigation.

1.2.1 Tier 2

The main objectives of the Tier 2 Generic Quantitative Geoenvironmental Risk Assessment programme are:

- investigate the potential human health and environmental liabilities at the site associated with any contamination; and
- provide a summary of the human health and environmental conditions at the site, together with any necessary further intrusive works and / or remediation works to render the site fit for its intended use.

The main objectives of the Geotechnical Site Investigation are:

- investigate the type, strength and bearing characteristics of the shallow made ground, superficial deposits and the underlying solid geology;
- investigate the risk of karst in the underlying limestone geology;
- provide engineering foundation and floor slab recommendations for the proposed development;
- provide infiltration rates and a viability assessment of stormwater drainage;
- provide recommendations regarding any other geotechnical aspects pertaining to the development.

In order to achieve the above objectives, Terra Firma carried out an assessment programme a review of existing data, followed by a geophysical survey and targeted field investigation to collect geotechnical and geoenvironmental data from selected locations.

The scope of the works including the schedule for in-situ and laboratory testing was determined by Terra Firma.

1.3 Information Sources

Sources of information that have been referenced in support of this assessment are listed in the reference section at the rear of this document.

1.4 Roles & Responsibilities

Table 1.1 Roles and Responsibilities

Role	Organisation
Client	Bridgend County Council
Management Contractor	Kier Construction Limited
Local Authority	Bridgend County Council
Geotechnical and Geoenvironmental Consultant	TFW Group Limited

1.5 Limitations & Exceptions of Investigation

The Client has requested that a Tier 2 Geoenvironmental and Geotechnical Report (GGR) be undertaken to enable the outlined main objectives.

The GGR was conducted, and this report has been prepared for the sole internal reliance of the Client and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of TFW Group Ltd. If an unauthorised third party comes into possession of this report, they rely on it at their peril and the authors owe them no duty of care and skill. The report represents the findings and opinions of experienced geoenvironmental and geotechnical consultants. TFW Group Ltd does not provide legal advice and the advice of lawyers may be required.

The subsurface geological profiles, any contamination and other plots are generalised by necessity and have been based on the information found at the locations of the exploratory holes and depths sampled and tested.

Human health and environmental risk assessment outcomes may not take into account the potential for the creation of new contaminant linkages as a result of variation to the proposed development and recommended engineering solutions. It is therefore imperative that the Client engages a geoenvironmental consultant to re-visit the conceptual site model and potential risks upon completion of final designs, prior to development.

Whilst this report assesses the suitability of soils in respect to human health and the environment, it is beyond the scope of this report to determine the legal status of imported and re-used soils/aggregates. It is the responsibility of the Client to confirm imported and re-used soils/aggregates have reached 'Non-Waste' status.

1.6 Quality Assurance

The quality, health, safety and environmental aspects of the assessment comply with Terra Firma business management system which is UKAS accredited and complies with the requirements of BS EN ISO 9001:2015, BS EN ISO 14001:2015 and BS EN ISO 45001:2018 standards.

SECTION 2 Tier 1 Assessment

The site has been the subject of a previous Tier 1 Geoenvironmental Desk Study:

- Phase 1 Ground Condition Desk Study, Heronsbridge School, Bridgend, Hydrock, 11th April 2023 (Doc. Ref. 26361-HYD-XX-XX-RP-GE-1000)

The salient points of the Tier 1 Assessment are summarised in **Section 2.1**.

2.1 Summary of Tier 1 Assessment

The findings of the Tier 1 Assessment are summarised in **Table 2.1**.

Table 2.1 Summary of Tier 1 Assessment

Site History	<i>Historical map review recorded the site to have comprised open fields traversed by a vehicle track. A 'cross' shaped structure (possible pond) and possible agricultural building were recorded in the south of the site.</i> <i>Latterly, a track/mound was formed on the site to maintain the planning permission for the previous sports village project.</i>
Geology	<i>Hydrock made reference to the 1:50,000 Scale Geological Plan. The majority of the study site has a superficial cover of Devensian Till (Unsorted and unstratified drift consisting of a heterogenous mixture of clay, sand, gravel and boulders) with a small portion of the south of the site having a superficial cover of Glaciolacustrine Deposits (typically laminated or structureless clay, silt and sand with coarser grained material underlying the finer material. Dropstones of sandstone, coal and chert are frequent. May be rich in organic matter). Made ground is anticipated on the site.</i> <i>Superficial deposits are shown to be underlain by the Porthkerry Member of the Blue Lias Formation.</i> <i>BGS Borehole SS97NW109, located c.20m east of the site, recorded limestone bedrock at 9.95m bgl.</i>
Aquifer Designations	<i>Hydrock record superficial till as a Secondary undifferentiated aquifer and glaciolacustrine deposits are recorded as unproductive strata. The Porthkerry Member is recorded as a Secondary A Aquifer.</i> <i>The Carboniferous Aquifer will underlie the site at depth.</i>
Radon	<i>The 2023 Hydrock Report recorded that full radon protection is required in new buildings at the study site. The Radon Database was updated in 2025 and we recommend obtaining a contemporary Radon Report to confirm this conclusion.</i>
Karst Subsidence Risk	<i>Hydrock confirm the risk of subsidence at the site due to limestone dissolution (solution features).</i>

SECTION 3 Karst in the Island Farm Region

3.1 Introduction

The proposed Heronsbridge School site locates in a geological setting prone to karst. The Carboniferous limestone in the region descends unconformably below the Jurassic limestone bedrock. These deposits have a superficial cover.

In the broader Island Farm area significant evidence of karst related subsidence has been noted. Features in the broader Island Farm area have been divided into several categories as listed below;

Mature Subsidence Features: These comprised well established depressions estimated to be approximately 5m – 6m deep and containing well established vegetation and mature trees and these features have been present since early map editions. **Figure 3.1** was taken from within a mature subsidence feature located approximately 100m southwest of the Heronsbridge site.



Figure 3.1 Photograph from base of Mature Feature



Historical Google Earth imagery has revealed several features approximately 320m south-southwest of the study site which currently have no visible surface expression although contemporary lidar data suggests ground depression above these features.

Active Features: In the broader Island Farm area it has been observed that surface subsidence features have been periodically backfilled to maintain agricultural land. **Figure 3.3** shows a surface subsidence that appeared in late 2025, was immediately filled, and had settled a further 0.5m by early 2026.



Figure 3.3 Example of Backfilled Features (September 2025) and the same features four months later (January 2026)

The broader Island Farm area has features which are actively subsiding, suggesting there is sufficient groundwater at depth to remove the subsiding soil from their base. It is not known whether the 'mature' features are still subsiding.

Other Features: A broad depression has been observed c. 430m southwest of the study site, in the vicinity of the mature features and this morphology may be indicative of subsidence (**Figure 3.4**).



Figure 3.4. Broad surface depression

Other dormant features may be present with no current surface expression, which could be triggered by a change in groundwater regime.

The wider area is known to have significant subterranean systems within the Carboniferous Limestone, which include the Schwyll Rising, located 1.78 km southwest of the study site (see Oldham, 1984).

Subsidence features discussed in this report are presented in **Figure 3.5**.

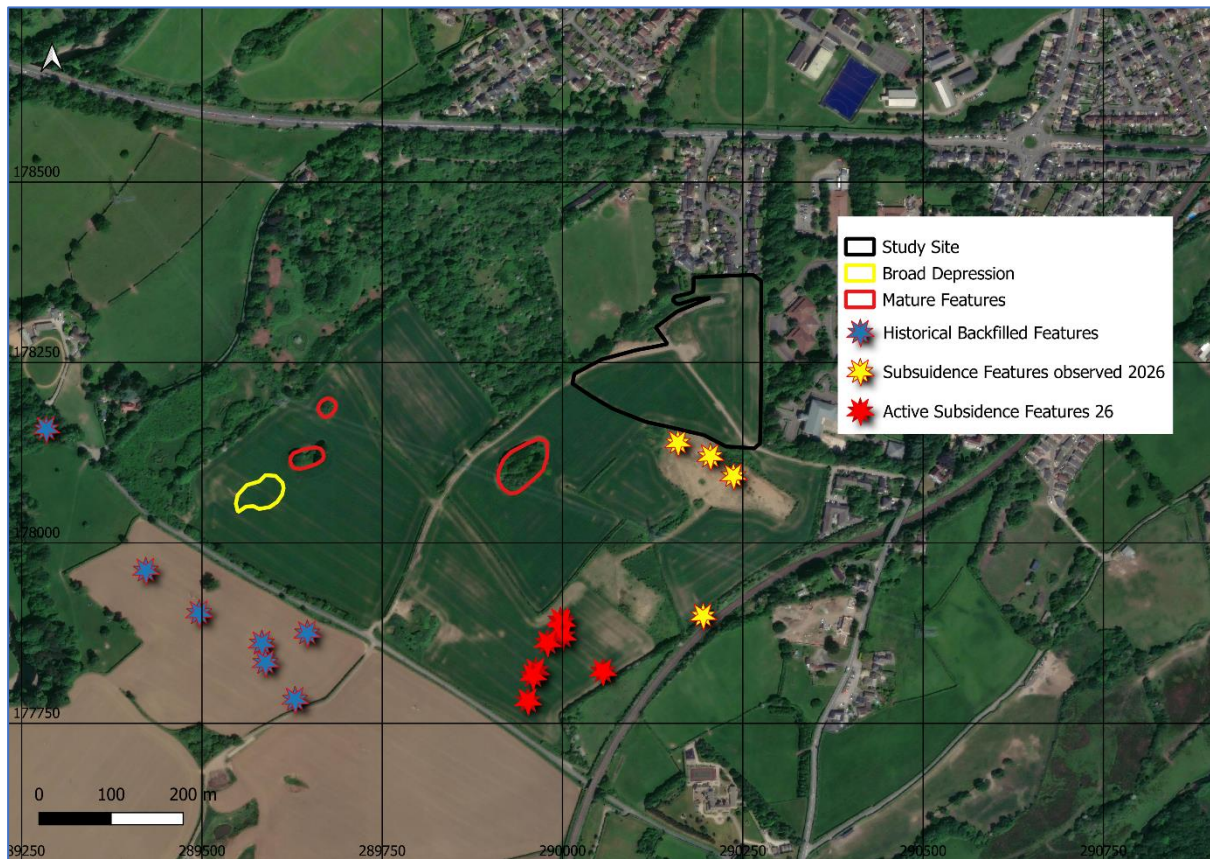


Figure 3.5. Subsidence features discussed in this report.

STUDY SITE

Whilst no visual evidence of contemporary surface subsidence was observed within the boundary of the Heronsbridge study site during the 2026 site visits, soil within karstic features is often metastable, or can become so, and its apparent stability can be upset by a change in surface water regime or a change in the deep groundwater regime. For example, two surface features have formed immediately south of the study site where topsoil has been removed and this removal may have exacerbated their development (**Figure 3.6**).



Figure 3.6. Surface features immediately south of Heronsbridge study site.

SECTION 4 Geophysical Investigation

Due to the recognised risk from karst at the site, a geophysical survey of the site was performed by TerraDat in June 2023 (TerraDat Job reference 8453) to identify anomalies which could indicate solution features.

A number of anomalies were identified indicating contrast in the resistivity/conductivity of the soil. Whilst some anomalies were identified as being caused by buried services and recent site reprofiling, others represented a change in the nature of the soil.

Several circular features were noted in contrast to the surrounding area and may represent anthropogenic or natural filling of depressions with soil which contrasts with the surrounding (i.e. increased clay content typically equates to greater conductivity and increased gravel content typically leads to reduced conductivity).

In addition, ERT Surveys noted undulations in rockhead at depth.

In conclusion, TerraDat recommended a series of intrusive boreholes to obtain ground-truth to confirm the geophysical findings. It should be noted that the layout of the proposed school has changed since the 2023 geophysical survey and consequently some borehole locations were amended to reflect this change.

SECTION 5 Field Investigation

5.1 Site Works

Between 14th and 16th January 2026, 19 No. trial pits were performed using a JCB 3CX. 15 No. trial pits were used for soakaway testing (SA301 – SA315). Trial Pit Logs are presented in **Annex A**.

Between 5th January 2026 and 12th February 2026 16 No. Rotary Cored/Dynamically samples boreholes were performed using a Rotary Percussive Drill Rig (BH101 – BH118 with BH114 and BH115 omitted). In-Situ Standard Penetration Tests (SPT) were performed in selected holes during the drilling. Rotary Percussive Borehole Logs are presented in **Annex B**.

Between 9th and 12th January 2026, 15 No. Windowless Sampler Boreholes were performed. Standard Penetration Tests (SPTs) were performed during the Windowless Sampling. Windowless Sampler Borehole Logs are presented in **Annex C**.

On 15th January 2026, 19 No. CBR Tests were performed at the site using a light weight deflectometer. The results of these tests are discussed in **Section 7**.

The fieldwork was supervised by Terra Firma, who logged the exploratory holes to the requirements of BS 5930:2015+A1:2020.

The locations of the investigation holes are presented in **Figure 5.1**.

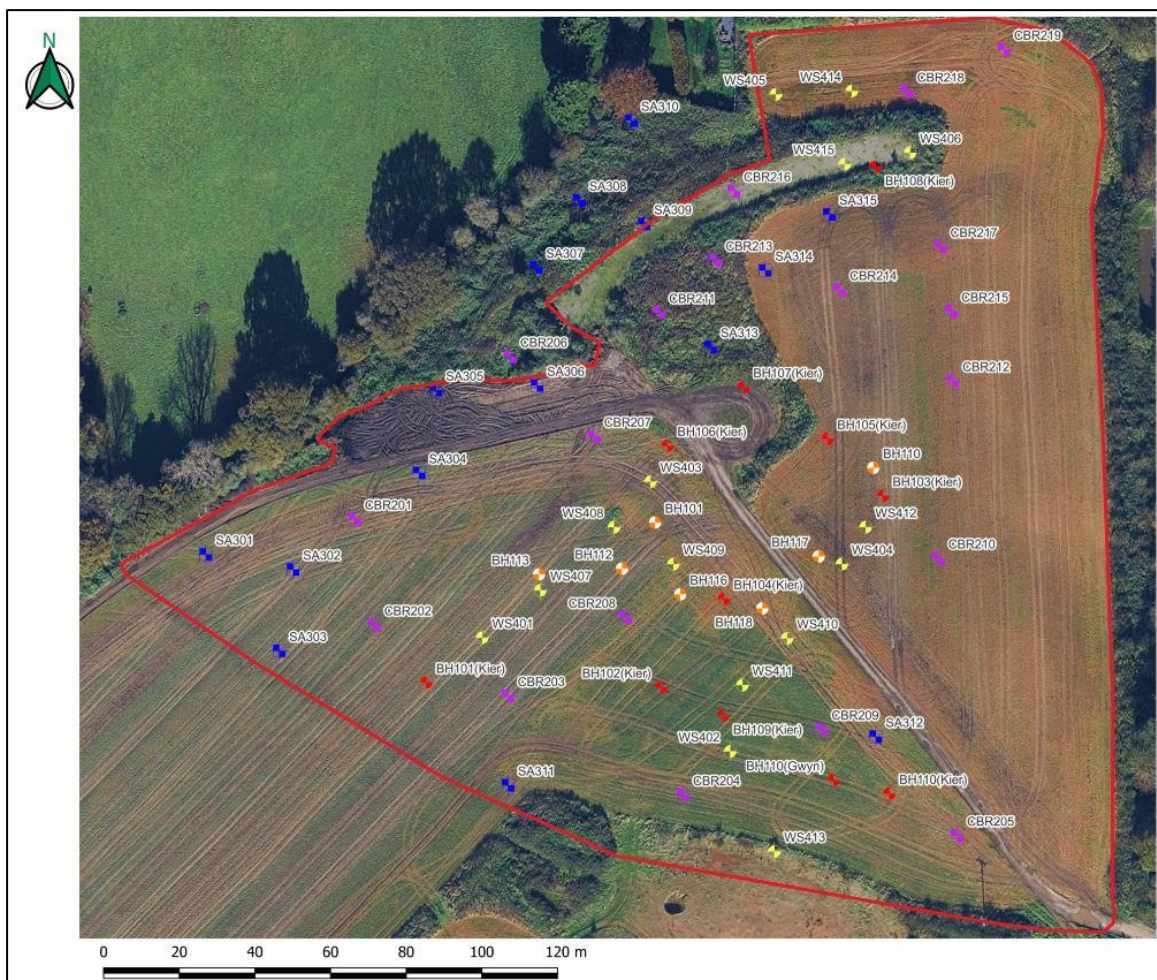


Figure 5.1 Site Investigation Hole Layout

5.2 General Ground Conditions

The ground conditions encountered by the exploratory holes are summarised in **Table 5.1** to **Table 5.3**.

Table 5.1 Summary of Typical Ground Conditions (Trial Pits)

Depth (m)			Thickness (m)	Stratum
0.00	-	0.70	0.70	MADE GROUND (SA309 Only): Soft, dark-brown, slightly sandy slightly gravelly CLAY.
0.00/0.70	-	1.00/2.80	>0.70/>2.80	SUPERFICIAL DEPOSITS: Highly variable ranging from granular to cohesive deposits with varying portions of clay, silt, sand, gravel, cobbles and boulders. Varying from soft to firm/loose to medium dense. Superficial deposits were predominantly orange-brown/red-brown.

Table 5.2 Summary of Typical Ground Conditions (Windowless Sampler Boreholes)

Depth (m)			Thickness (m)	Stratum
0.00	-	3.00/5.45	3.00/5.45	SUPERFICIAL DEPOSITS: Highly variable ranging from granular to cohesive deposits with varying portions of clay, silt, sand, gravel, cobbles and boulders. Varying from soft to firm/loose to medium dense. Superficial deposits were predominantly orange-brown/red-brown.

Table 5.3 Summary of Typical Ground Conditions (Rotary Boreholes)

Depth (m)			Thickness (m)	Stratum
0.00	-	3.00/5.45	3.00/5.45	SUPERFICIAL DEPOSITS: Variable cohesive and granular deposits. Gravel/Cobbles of limestone often countered before bedrock
4.00/30.50	-	>9.00/>35.00	-	BEDROCK: Limestone. Several anomalies noted (see Table 5.4)

5.2.1 Evidence of Karst

Variation in the elevation of bedrock was noted in the study site during rotary drilling. At its shallowest, bedrock was encountered at 4.0m bgl and at its deepest bedrock was encountered at 30.5m. These significant variations are indicative of limestone dissolution beneath the footprint of the proposed building. The recorded depths to bedrock are summarised in **Figure 5.2**



Figure 5.2 Summary of Depth to Bedrock during Rotary Drilling

During drilling several anomalies were encountered within the limestone which are potentially related to karst. These are summarised in **Table 5.4**.

Table 5.4 Summary of Anomalies in Bedrock

Location	Depth (m)			Description
BH105	7.0	-	8.5	Soft drill – possible void
BH108	23.0	-	24.5	No flush return
BH109	12.5	-	14.0	No recovery
	17.0	-	19.0	No recovery
	24.0	-	27.5	Possible Void/Very loose sand
BH110	13.5	-	20.0	No flush returns
BH111	12.5	-	17.0	Zone of core loss
	17.0	-	18.0	Soft gravelly clay infill
BH112	9.5	-	11.0	Zone of core loss
	12.5	-	18.5	Zone of core loss
	18.5	-	18.85	Soft, gravelly sandy clay infill
BH113	18.4	-	20.0	No recovery. Possible void/soft drill
BH116	24.5	-	28.1	Possible Void/Very soft
BH117	27.5	-	31.0	Zone of core loss
	31.0	-	32.5	Sandy gravel
BH118	24.0	-	24.5	Clayey gravel

5.3 Groundwater

Groundwater was not encountered within the trial pits and window sampler boreholes. During drilling, groundwater was encountered in several locations. Groundwater conditions are summarised in **Table 5.5**.

Table 5.5 Summary of Groundwater conditions during drilling

Location	Depth to Groundwater
BH101	Damp at base (26.00m)
BH102	Water at 13m
BH103	Water at 24m
BH104	Water at 14.2m
BH105	Dry at completion (10.00m)
BH106	Water at 22m
BH107	Dry at completion (9.00m)
BH108	Dry at Completion (25.00m)
BH109	Damp at base (30.5m)
BH110	Damp, at base (25.00m)
BH111	Water at 21m
BH112	Water at 21m
BH113	Dry at completion (28.00m)
BH116	Water at 21.7m
BH117	-
BH118	Water at 24m

The data reveals that the large karstic feature beneath the site extends below the groundwater table.

5.4 Stability & Obstructions

Trial pits were generally stable during excavation with only minor spalling noted.

5.5 Laboratory Chemical Testing

5.5.1 Sampling Strategy

Soil sampling locations were selected on a non-targeted basis to characterise the contamination status of the made ground across the site.

Sample locations, depths and suspected/known contamination source targets are summarised in **Table 5.6**:

Table 5.6 Sample Locations and Soil Type

Location	Depth (m)	Soil Type
SA312	0.60	Natural
TP01	1.00	Natural
TP01	2.00	Natural
TP02	0.90	Natural
TP03	1.00	Natural
TP03	2.20	Natural
SA307	0.80	Natural
SA301	0.10	Natural
SA303	0.50	Natural
SA308	2.00	Natural
WS413	0.50	Natural
BH104	0.60	Natural
WS404	0.40	Natural
WS402	0.20	Natural
WS409	0.30	Natural
WS414	0.40	Natural
WS406	0.30	Natural
WS415	0.80	Natural

5.5.2 Sample Analysis

During the site investigation works soil samples were collected and despatched under a chain of custody to the accredited laboratories of Eurofins Chemtest for chemical analysis. A summary of testing is listed in **Table 5.7**.

Table 5.7 Laboratory Analysis

TFW Chemical Testing Suite	No. Samples Tested
TFV	18
BRE Sulphate Suite	3

The laboratory test results certificates may be found in **Annex D**.

5.6 Soil Property Testing

5.6.1 In-situ Permeability Testing (Soakaways)

Between the 14th and 16th of January 2026 soakaway tests were performed in a trial pit at the site. Soakaway test results are summarised in **Table 5.8**.

Table 5.8 Summary of Soakaway Results

Trial Pit	Geology Description	Infiltration Rate (ms ⁻¹)
SA306, SA307, SA309, SA310, SA311, SA312, SA313, SA314, SA315	Superficial Deposits	Insufficient Infiltration Achieved to allow calculation
SA308	Superficial Deposits	1.12 x 10 ⁻⁵ ms ⁻¹ achieved in one test

The test results and calculation sheets are presented in **Annex E**.

It should be noted that soakaways are not recommended at the site on account of the risk the excess water poses to triggering subsidence.

5.6.2 Laboratory Geotechnical Testing

A schedule of laboratory tests was prepared by TFW Group Ltd and samples were despatched to the accredited laboratories of ATS/GSTL. A summary of the testing carried out is presented in **Table 5.9**.

Table 5.9 Summary of Geotechnical Testing

Geotechnical Test	No. Samples Tested
Plasticity Determination	11
Particle Size Distribution Analysis	10
Proctor Compaction Analysis	10
Unconfined Compressive Strength	10
In-Situ CBR Testing	19

The geotechnical test results are presented in **Annex F**.

SECTION 6 Evaluation of Geoenvironmental Analytical Results

6.1 Assessment Methodology

6.1.1 Soils

An assessment of the analytical results has been made with comparison with the following generic assessment criteria with preference in most onerous order:

- Land Quality Management (LQM) and the Chartered Institute of Environmental Health (CIEH) Suitable 4 Use Levels (S4UL) (Nathanail, CP *et al.*:2015);
- Category 4 Screening Levels (C4SL) provided by the Department for Environment, Food and Rural Affairs (DEFRA:2014);
- Soil Guideline Values (SGV) by the Environment Agency (2009);
- Generic Assessment Criteria (GAC) provided by EIC/AGS/CL:AIRE (2010)

In the absence of generic assessment criteria, the laboratory limit of detection has been used for comparison, in order to establish the presence/absence of determinants and for initial screening purposes.

The average Soil Organic Mater (SOM) recorded at the site was 1.2% and during the assessment of hydrocarbons the 1.0% SOM soil guidelines were employed.

6.2 Soil Test Results

A summary of the chemical test results which include the regulatory soil guideline values used in a **residential setting with plant uptake** are given in the following tables. The complete results can be found in **Annex D**.

6.2.1 Inorganics

Eighteen samples were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in **Table 6.1**.

Table 6.1 Summary of Soil Chemical Test Results – Inorganics

Determinand	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Arsenic	37	LQM/CIEH	4.6	14	0
Cadmium	11	LQM/CIEH	<0.1	0.7	0
Chromium III	910	LQM/CIEH	3.9	27	0
Chromium VI	6	LQM/CIEH	<1.0	<1.0	0
Copper	2400	LQM/CIEH	2.8	23	0
Lead	200	C4SL	3.3	39	0
Mercury (inorganic)	40	LQM/CIEH	<0.05	0.06	0
Nickel	180	LQM/CIEH	1.5	35	0
Selenium	250	LQM/CIEH	<0.5	1.1	0
Zinc	3700	LQM/CIEH	10	90	0
Cyanide	8	CLEA	<0.1	0.2	0
Boron	290	LQM/CIEH	0.2	2.2	0
Organic Matter (%)	-	-	0.2	4.7	-
pH	-	-	5.9	8.9	-
Notes: CLEA Guideline withdrawn					

6.2.2 Organics

Eighteen samples were tested for speciated polycyclic aromatic hydrocarbons (PAH). The summarised results are in **Table 6.2**.

Table 6.2 Summary of Soil Chemical Test Results – Speciated PAH

Determinand	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Naphthalene	2.3	C4SL	<0.10	<0.10	0
Acenaphthylene	170	LQM/CIEH	<0.10	<0.10	0
Acenaphthene	210	LQM/CIEH	<0.10	<0.10	0
Fluorene	170	LQM/CIEH	<0.10	<0.10	0
Phenanthrene	95	LQM/CIEH	<0.10	<0.10	0
Anthracene	2400	LQM/CIEH	<0.10	<0.10	0
Fluoranthene	280	LQM/CIEH	<0.10	<0.10	0
Pyrene	620	LQM/CIEH	<0.10	<0.10	0
Benzo(a)anthracene	7.2	LQM/CIEH	<0.10	<0.10	0
Chrysene	15	LQM/CIEH	<0.10	<0.10	0
Benzo(b)fluoranthene	2.6	LQM/CIEH	<0.10	<0.10	0
Benzo(k)fluoranthene	77	LQM/CIEH	<0.10	<0.10	0
Benzo(a)pyrene	2.2	LQM/CIEH	<0.10	<0.10	0
Indeno(123cd)pyrene	27	LQM/CIEH	<0.10	<0.10	0
Dibenzo(ah)anthracene	0.24	LQM/CIEH	<0.10	<0.10	0
Benzo(ghi)perylene	320	LQM/CIEH	<0.10	<0.10	0
Total PAH	-	-	<1.6	<1.6	-

Notes:

Thresholds based on 1.0% soil organic matter

Eighteen samples were tested for petroleum hydrocarbon. The summarised results are shown in **Table 6.3**.

Table 6.3 Summary of Soil Chemical Test Results – Petroleum Hydrocarbons

Determinand	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Aliphatic					
PH C5 – C6 Ali	42	LQM/CIEH	<0.01	<0.05	0
PH C6 – C8 Ali	100	LQM/CIEH	<0.01	<0.10	0
PH C8 – C10 Ali	27	LQM/CIEH	<0.01	<0.01	0
PH C10 – C12 Ali	130	LQM/CIEH	<1.5	<1.5	0
PH C12 – C16 Ali	1100	LQM/CIEH	<1.2	<1.2	0
PH C16 – C21 Ali	65000*	LQM/CIEH	<1.5	<1.5	0
PH C21 – C35 Ali	65000*	LQM/CIEH	<3.4	<3.4	0
PH C35 – C40 Ali	65000	LQM/CIEH	<3.4	<3.4	0
Aromatic					
PH C5 – C7 Arom	70	LQM/CIEH	<0.10	<0.05	0
PH C7 – C8 Arom	130	LQM/CIEH	<0.10	<0.05	0
PH C8 – C10 Arom	34	LQM/CIEH	<0.90	<0.05	0
PH C10 – C12 Arom	74	LQM/CIEH	<0.50	<0.50	0
PH C12 – C16 Arom	140	LQM/CIEH	<0.5	<0.5	0
PH C16 – C21 Arom	260	LQM/CIEH	<0.6	<0.6	0
PH C21 – C35 Arom	1100	LQM/CIEH	<1.4	<1.4	0
PH C35 – C40 Arom	1100	LQM/CIEH	<1.4	<1.4	0
Notes: PH – Petroleum Hydrocarbon Ali – Aliphatic Arom – Aromatic Thresholds based on 1.0% soil organic matter * – Ali C16-21 and C21-C35 based on criteria for Ali EC >16-35					

Eighteen samples were tested for phenol. The summarised results are shown in **Table 6.4**.

Table 6.4 Summary of Soil Chemical Test Results – Phenol

Determinand	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Phenol					
Phenol	120	LQM/CIEH	<0.3	1.0	0

6.2.3 Asbestos Testing

All soil samples were scheduled for asbestos screening. Asbestos was not detected.

SECTION 7 Generic Quantitative Risk Assessment

7.1 Contaminants of Concern

Risk Assessment Definitions are presented in **Annex H**.

All determinants tested were recorded at concentrations below their respective Generic Assessment Criteria and the site is therefore deemed to be suitable for its proposed end use in respect to soil chemistry.

7.2 Mitigation & Remedial Measures

Based on the current chemical testing, remedial measures are not deemed necessary in respect to the sites end-users.

7.2.1 Human Health

Groundworkers may be in more intimate contact with the ground than future site users. As good practice, construction workers must adhere to good site management, COSHH, good standards of hygiene and appropriate health & safety on site, with personal protection equipment (PPE) and dust suppression where appropriate.

Groundworkers should submit their own Risk Assessments and Method Statements based on the prevailing ground conditions.

Any imported soils must be validated as clean and suitable for use in accordance with 'Requirements for the Chemical Testing of Imported Soils for Various End Uses and Validation Cover Systems'.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils destined for off-site disposal must be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and must be classified on the basis of their specific chemical properties.

If during earthworks ground conditions are encountered that are markedly different to those found during the investigation, then the ground must be subject to additional sampling and testing and any necessary remedial measures designed and implemented before continuing with the works.

7.2.2 Ground Gas/Radon

Ground gas monitoring is ongoing at the site and a conclusion will be presented upon completion of this monitoring. Two rounds have been completed thus far, with a highest recorded methane of 0.2%, a highest recorded carbon dioxide of 4.2% and a highest flow of 0.1 l/hr. Based on the current data a Gas Screening Value (GSV) of $0.1 \times 0.042 = 0.0042$ is calculated, placing the site within Gas Characteristic Situation 1 in accordance with CIRIA C665 (2007). This conclusion should be revisited upon completion of the monitoring.

The 2023 Envirocheck Report concluded that Full Radon Protection is required in the construction of new dwellings at the site. TFW Group Limited recommend that a contemporary radon report be purchased to confirm this conclusion.

Gas results are presented in **Annex G**.

7.2.3 Aquatic Environment

TFW Group Limited does not feel that the level of contamination do not pose a risk to the aquatic environment and feel that site specific mitigation and remedial measures are not required with respect to the aquatic environment.

During the construction period, there is a risk to the environment/adjacent sites from de-watering, digging foundations, moving contaminated soil, drainage misconnections, discharges to local surface waters or the ground, runoff from construction materials and/or exposed ground, wheel washings and oil or chemical spills.

The risk is considered to be negligible as any adverse effects will be easily preventable by due diligence to good construction practise and housekeeping in preventing surface runoff and the spillage of materials.

The basic measures that must be taken are as follows:

- Prepare a drainage plan and mark the manholes to prevent pollutants accidentally reaching the surface water sewers;
- Carry out any activities that could cause pollution in a designated, bunded area, away from rivers or boreholes. Where possible it should drain to the foul sewer;
- Use settlement ponds to remove silty water;
- Store all oils and chemicals in a fully bunded area to prevent leaks or spills;
- Get advice on whether you need an environmental permit and apply in good time

The proposed compaction grouting works required to stabilise the karstic features will interact with the aquatic environment and this is discussed further in **Section 9**.

SECTION 8 Laboratory Geotechnical Testing Results Analysis

Laboratory geotechnical testing results are summarised in the following sections and presented in their entirety in **Annex F**.

8.1 Soil and Rock Testing

8.1.1 Concrete Classification Testing

The results for 3 No. concrete classification tests in accordance with BRE SD1:2015 have been received. The results are summarised in **Table 8.1**

Table 8.1 BRE SD1 Testing Summary

Location	Depth (m)	2:1 Water/Soil Extract		Total Sulphur (%)	pH	Total Potential Sulphate (%)	Acid Soluble Sulphate (%)	Oxidisable Sulphides (%)
		SO ₄ (mg/l)	Mg (mg/l)					
SA312	1.50	11	<10	<0.01	7.9	<0.03	0.02	<0.01
BH104	6.00	14	<10	<0.01	8.1	<0.03	0.02	<0.01
WS405	1.00	16	<10	<0.01	7.5	<0.03	<0.01	<0.02

Notes:

The following stoichiometric equation was employed to determine the Total Potential Sulphate (TPS). $TPS (\% \text{ as } SO_4) = 3.0 \times \text{Total Sulphur (TS \% as S)}$.

The Oxidisable Sulphide (OS as %SO₄) concentration has been conservatively calculated by the following equation. $OS = TPS - \text{Acid Soluble Sulphate (AS)}$.

The initial classification for the site based on 2:1 Water Soluble Sulphate records a range from 11 mg/l to 14 mg/l, placing the site in Design Sulphate (DS) Class **DS-1**. The Aggressive Chemical Environment for Concrete (ACEC) Class for the site based on 2:1 Water Soluble Sulphate and the prevailing pH (7.5 – 8.1) is **AC-1**.

It is assumed that due to high permeability of the soil, groundwater could be considered as mobile.

8.1.2 Unconfined Compressive Strength

Selected sections of rock cores were submitted for uniaxial compressive strength (UCS) testing. Testing results are summarised in **Table 8.2**.

Table 8.2 Summary of UCS Test Results

Borehole	Depth (m)	Geological Description	Water Content (%)	Bulk Density (Mg/m ³)	Unconfined Compressive Strength (MPa)
BH111	21.25	Limestone	0.4	2.65	43.8
BH112	8.90	Limestone	0.4	2.65	33.9
BH112	14.20	Limestone	1.2	2.65	7.6
BH112	21.00	Limestone	1.6	2.57	14.0
BH113	18.10	Limestone	0.6	2.66	68.7
BH113	21.00	Limestone	0.5	2.69	48.6
BH116	24.30	Limestone	0.2	2.69	38.3
BH117	20.20	-	0.5	-	0.20
BH117	25.60	Limestone	2.0	2.69	51.4
BH118	20.30	Limestone	2.1	2.58	17.5

8.1.3 Soil Plasticity Determination

Plasticity testing was performed on 6 samples of natural cohesive material. The results of the testing are summarised in **Table 8.3**.

Table 8.3 Summary of Plasticity Testing

Location	Depth (m)	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Modified P.I. (%)
TP02	1.00	16.2	27	15	12	85	10.2
BH104	5.50	17.0	24	23	11	91	10.0
WS403	4.00	26.6	39	20	19	100	19
WS407	0.50	26.3	24	16	8	90	7.2
WS408	1.50	17.6	25	15	10	90	9
WS411	0.90	14.7	25	16	9	65	5.85
WS409	1.80	14.0	27	14	13	100	13
WS405	3.80	26.5	50	18	32	100	32
WS414	0.60	18.8	33	15	18	92	16.6
WS406	1.50	26.9	53	20	33	95	31.4
WS415	1.20	11.6	28	15	13	90	11.7

Based on the Modified Plasticity Index, and with reference to Table 1 of Chapter 4.2 of NHBC Guidelines (2025) the soils range from below low volume change potential (<10%) to Medium Soil Volume Change Potential (20% - 40%).

The results of the geotechnical testing are presented in **Annex F**.

8.1.4 Grading Analysis

Particle Size Distribution analysis was performed on 10 samples of natural material. The results of the testing are summarised in **Table 8.4**.

Table 8.4 Summary of Grading Testing

Location	Depth (m)	Water Content (%)	Cobble/Boulder (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
TP01	1.00	11.7	0	56	26	8	11
TP01	2.00	9.7	0	66	23	5	7
TP02	0.90	13.6	0	20	36	35	9
TP02	2.20	9.8	10	51	25	4	10
TP03	1.00	13.0	0	22	38	25	15
TP03	2.20	10.9	4	54	27	6	9
TP04	1.50	9.8	6	53	24	6	11
SA307	0.80	16.9	0	16	53	18	13
SA308	2.00	13.8	0	54	28	11	8
SA312	0.60	11.6	4	43	36	11	7

Oversize clasts require removal prior to earthworks.

8.1.5 Compaction Analysis

Proctor Compaction analysis was performed on 10 samples of natural material. The results of the testing are summarised in **Table 8.5**.

Table 8.5 Summary of Compaction Testing

Location	Depth (m)	Water Content (%)	Optimum Moisture Content (%)	Maximum Dry Density (Mg/m ³)
TP01	1.00	11.7	8	2.09
TP01	2.00	9.7	9	2.15
TP02	0.90	13.6	12	1.99
TP02	2.20	9.8	9.1	2.04
TP03	1.00	13.0	9.3	1.99
TP03	2.20	10.9	9.5	2.08
TP04	1.50	9.8	9.2	2.07
SA307	0.80	16.9	11	1.94
SA308	2.00	13.8	13	1.95
SA312	0.60	11.6	8.7	2.09

8.1.6 CBR Testing

19 No. California Bearing Ratio (CBR) tests were undertaken using a lightweight deflectometer. The results of the testing are summarised in **Table 8.6**.

Table 8.6 Summary of CBR Testing

Location	Depth (m)	CBR (%)
CBR 201	0.19	4.5
CBR 202	0.17	5.3
CBR 203	0.11	4.9
CBR 204	0.18	4.1
CBR 205	0.17	5.3
CBR 206	0.10	3.4
CBR 207	0.15	4.5
CBR 208	0.19	4.9
CBR 209	0.18	5.3
CBR 210	0.21	5.7
CBR 211	0.10	3.4
CBR 212	0.21	5.3
CBR 213	0.10	3.8
CBR 214	0.12	4.5
CBR 215	0.20	4.9
CBR 216	0.00	25.8
CBR 217	0.15	4.1
CBR 218	0.14	3.8
CBR 219	0.16	4.1

SECTION 9 Engineering Recommendations

9.1 Preparation of Site

Areas of vegetation including all roots must be stripped and removed from beneath the proposed development site.

Allowances should be made for any temporary/permanent support works to any existing adjacent structure necessary as a result of the proposed works.

Contingencies should be made for the protection/diversion of any underground/overhead services present beneath/above the site brought about as a result of the proposed works.

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department for Transport (DfT) type 2 sub-base or similar should be used and compacted in layers to the requirements of the Specification for Highway Works.

Allowances must also be made for the excavation of any soft spots/areas and their replacement with well compacted imported granular materials.

In accordance with EC Regulation 1272/2008 (Ref) and Environment Agency Guidance WM3 soils and other materials destined for off-site disposal must be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and must be classified on the basis of their specific chemical properties. Terra Firma offer this service if required.

Structural areas have been highlighted by Cambria Consulting and are presented in **Figure 9.1**



The structural areas include the school building and associated MEP Compound, MUGA and AWP facilities, 2 No. Residential Buildings and associated MEP Compound and Attenuation Cells beneath the car park.

A specialist compaction grouting contractor and consultant should be engaged to provide a design for the appropriate treatment of structural areas to remove the risk of catastrophic subsidence due to karst features. The design should include in-situ testing to validate the effectiveness of the treatment to ensure the treatment works were effective in achieving the required ground performance.

Ground Engineering/Earthworks should be performed after grout treatment is completed.

9.2.2 Subsidence Risk in External Areas

TFW Group Limited understand that the client is currently undertaking a cost benefit analysis in relation to the external areas. Compaction Grouting of external areas would provide the most robust treatment methodology and we would encourage the client to seek a quote for stabilisation of the whole site by this method.

In addition, it would be prudent to seek a cost for grout treatment of a service corridors for consideration.

Due to the sensitivity of the development, as a minimum, all external areas should have a catch-net system to prevent risks from sudden large scale surface subsidence. The catch-net should comprise a high strength geotextile laid within the ground and linked with appropriate dowels and pegs. This method does not totally eliminate the risk of subsidence, and it should be factored in that local treatment will be necessary should a subsidence event occur, along with all the associated disruption during the treatment period.

9.3 Foundation & Floor Slab Solution

9.3.1 Recommended Foundation Solution

Following the completion and validation of the proposed Compaction Grouting there will remain a residual subsidence risk due to potential residual voids at shallow depth (below which compaction grouting cannot be performed due to lack of overburden). As such TFW Group Limited recommend the employment of a rigid foundation system such as a reinforced raft type foundation/floor slab, designed with a span capacity of 3.0m and a cantilever capacity of 1.5m in corners.

TFW Group Limited understand that there is a proposal to include two swimming pool facilities within the structure and these, too, must be designed to be integral to the larger structure and designed to accommodate potential minor settlements.

Following grout treatment and any local earthworks performed to achieve required elevations and address soft-spots, carried out in accordance with Series 600 of the specification for Highway Works, a foundation load of 100 kN/m² would be considered reasonable. Maximum settlements should be <25mm with differential settlements less than 1:750.

9.4 Excavations & Formations

Excavation should be possible with typical excavating machinery although provision should be made for the use of breakers where tarmac and buried foundations are present.

The sides of any excavations deeper than 1.20m, or shallower if unstable, should be supported by planking and strutting or other proprietary means.

The sub-formations/formations are likely to be susceptible to loosening, softening and deterioration by exposure to weather (rain, frost and drying conditions), the action of water (flood water or removal of groundwater) and site traffic.

Formations should never be left unprotected and continuously exposed to rain causing degradation, or left exposed/uncovered overnight, unless permitted by a qualified engineer.

Construction plant and other vehicular traffic should not be operated on unprotected formations.

TFW Group Limited understand that there is a proposal to undertake cut and fill operations at the site. Any earthworks should be performed in accordance with Series 600 of the Specification for Earthworks. Soils should be laid in thin compacted layers in accordance with the guidance and placed at Optimum Moisture Content. Earthworks will, therefore, be weather dependant. During compaction testing soil Natural Moisture Content was above Optimum Moisture Content. If Optimum Moisture Content cannot be achieved by turning soils, consideration could be given to the use of CenDri to reduce soil moisture content. If CenDri or similar is deemed necessary, we'd recommend undertaking a field trial to determine the most efficient mixture.

Oversized clast (boulders and cobbles) were noted in some samples and these need to be removed or crushed prior to earthworks.

9.5 Protection of Buried Concrete

When the results are compared with Table C1 of BRE Digest 1:2005, it indicates that buried concrete should conform to Class DS-1, AC-1.

9.6 Access Roads & Car Parking Areas

In-Situ California Bearing Ratio (CBR) Testing was performed at the site and is summarised in **Table 8.6**.

9.7 Storm Water Drainage

Due to the presence of karst beneath the site, the superficial deposits are at risk of subsidence and this is exacerbated by the introduction of water. Therefore, we would consider it prudent to not employ soakaways upon the site.

SECTION 10 Hydrogeology and Ground Treatment

10.1 General

The site is considered to locate within a sensitive setting in relation to groundwater vulnerability. The site is underlain by Jurassic Limestone with karst features which, in turn, overlie the Carboniferous Limestone Principal Aquifer.

The treatment of the bedrock by compaction grouting will involve the injection of cement-based grouts into these sensitive geologies and a Risk Assessment will be necessary to ascertain the impact of these works on the underlying aquifers and, also, upon receptors further afield.

10.2 Beneath the Site

The injection of grout into underlying bedrock could potentially impact the chemistry of the water therein. It is recommended that once the proposed grout formula is chosen, leachate tests be undertaken on samples of the proposed grout to ascertain its potential impact on groundwater.

10.3 Off-Site Receptors

The River Ogmore passes 725m west-southwest of the site. Studies in the broader area have confirmed that the river interacts with groundwater, for example, a portion of the river 'sinks' into subterranean passages at the Merthyr Mawr Sink, 950m west of the site, before resurfacing further southwest (see Oldham (1984)).

The study site locates 1.68 km from the Schwyll Abstraction and approximately 620 m from the Schwyll Source Protection Zone (SPZ) for the abstraction (see **Figure 10.1**). Hobbs (1993) presents details of tracer tests performed in the broader area which indicate connectivity between several selected locations and the Schwyll Abstraction.

It is therefore essential that the risk to the Schwyll Abstraction is assessed to determine whether there is potential connectivity and, if so, what are the risks from grout injection. Liaison will be necessary with Welsh Water and Natural Resources Wales and tracer testing from the site perimeter may be necessary.

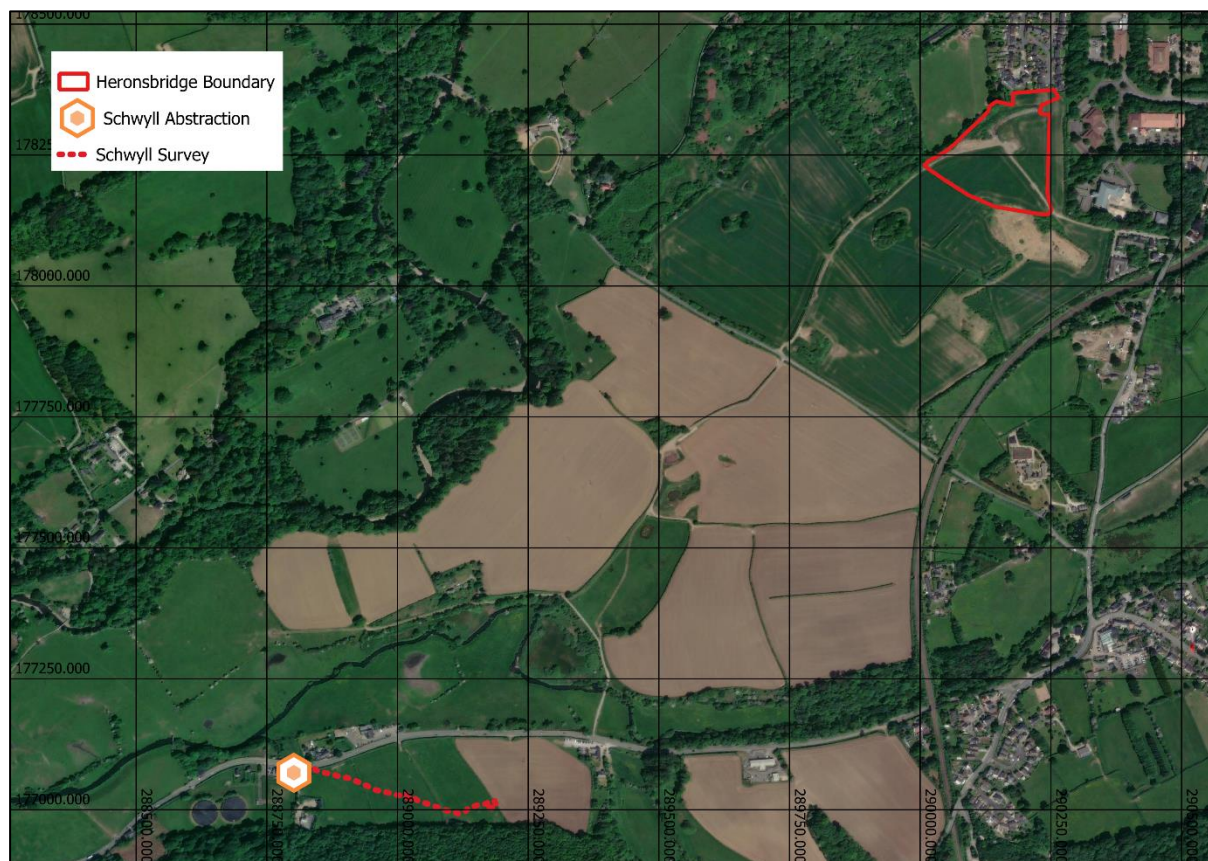


Figure 10.1 Study Site, Schwyll Abstraction and Schwyll Survey

Despite the distance from the study site to the Schwyll Abstraction, the bedrock will be prone to secondary permeability through karst and such features potentially offer a rapid route for groundwater transport. For example, it is known that a large, flooded passage extends at least 440m east-southeast of the abstraction (see Descent 141, (1998)).

Therefore, the designer of the Compaction Grouting scheme should consult with Natural Resources Wales and Welsh Water regarding measures to protect the aquifer and Schwyll Abstraction.

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ANNEX A
Trial Pit Logs

DRAFT



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Trial Pit Log

Trial Pit No:

TP01

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.80

Depth

0.60

2.20

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			Soft dark brown slightly gravelly sandy CLAY.	
							Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
				1.40			Medium dense orangih brown clayey sandy GRAVEL. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	2
				2.20			End of Pit at 2.200m	3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

TP02

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.40

Depth

1.30

0.60

Scale:

1:25

Logged:
JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.40			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
							Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
				1.30			End of Pit at 1.300m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

TP03

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.90

Depth

2.20

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
							Firm orangish brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
				1.00			Medium dense orangih brown clayey sandy GRAVEL. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
								2
				2.20			End of Pit at 2.200m	3
								4
								5

Stability: Stable

Remarks:

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Trial Pit Log

Trial Pit No:

TP04

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.60

Depth

1.50

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.
							Firm orangish brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.
				1.50			End of Pit at 1.500m

Stability: Stable

Remarks:

ANNEX B
Rotary Core/Probe Borehole Logs



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Borehole No.

BH101

Sheet 1 of 3

Project Name:		Heronsbridge School, Bridgend		Project No.		TF-25-430-CA		Co-ords:		290155.00 - 178239.00		Hole Type		RC	
Location:		Ewenny Road, Bridgend						Level:				Scale		1:50	
Client:		Kier Construction Limited						Dates:		28/01/2026 - 30/01/2026		Logged By		FL	
Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description					
			TCR	SCR	RQD										
	3.00					3.00 N=8 (2,2/1,2,3, 2)				Top soil, sandy GRAVEL (Drillers description)	1				
	6.00					50 (3,3/50 for 230mm)				Loose becoming medium dense gravelly SAND (Drillers description)	2				
	9.00					9.00 50 (5,10/50 for 175mm)				Medium dense gravelly SAND with cobbles (Drillers description)	3				
Remarks:															

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Borehole No.

BH101

Sheet 2 of 3

Project Name:	Heronbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290155.00 - 178239.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	FL
Client:	Kier Construction Limited	Dates:	28/01/2026 - 30/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										Medium dense gravelly SAND with cobbles (Drillers description)	11
	12.00 - 12.50		70	0	0	12.00				Dense grey clayey gravelly COBBLES. Gravel is angular fine to coarse of limestone. Cobbles are subangular of limestone.	12
	12.50					12.50 50 (25 for 85mm/50 for 20mm)				Dense gravelly COBBLES (Drillers description)	13
											14
	15.00 - 15.50		30	0	0	15.00				Dense grey gravelly COBBLES. Gravel is angular fine to coarse of limestone. Cobbles are subangular of limestone.	15
							15.70				
	15.50 - 17.00		43	23	0	15.98				Grey sandy LIMESTONE with medium to coarse gravel sized inclusions. Grey slightly sandy LIMESTONE with occasional shell fossil. Fractures are very closely spaced undulating rough fracture with trace of clay on fracture face.	16
											17
	17.00 - 18.00		94	94	63					<u>Large calcite vein</u>	
											18
	18.00 - 19.00		100	92	82						
											19
	19.00 - 20.00		105	80	75	19.00				Strong thinly to very thickly bedded dark grey LIMESTONE with frequent calcite veins and rare coral fossils. Fractures are planar rough, sub-horizontal to horizontal 0-20 degrees with orangeish brown staining on the fracture face.	19
											20

Remarks:

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Borehole No.

BH101

Sheet 3 of 3

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290155.00 - 178239.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	FL
Client:	Kier Construction Limited	Dates:	28/01/2026 - 30/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.00 - 21.50		100	81	63	20.45				Strong thinly to very thickly bedded dark grey LIMESTONE with frequent calcite veins and rare coral fossils. Fractures are planar rough, sub-horizontal to horizontal 0-20 degrees with orangeish brown staining on the fracture face.	21
						21.50				Strong thinly to very thickly bedded dark grey fine to coarse LIMESTONE with coarse angular to sub angular gravel inclusions of limestone and rare veins. Fractures are planar rough, 0-20 degrees with orangeish brown staining on the fracture face.	22
										Limestone Calsite [Drillers Description]	23
											24
											25
						26.00				End of Borehole at 26.000m	26
											27
											28
											29
											30

Remarks:

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Borehole No.

BH102

Sheet 1 of 2

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	09/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	3.00					3.00 N=13 (2,2/3,3,4, 3)				Top soil, sandy GRAVEL (Drillers description)	1
											2
										Sandy gravel CLAY (Drillers description)	3
											4
	6.00					6.00 N=4 (1,1/1,1,1, 1)				Silty CLAY (Drillers description)	6
											7
											8
	9.00					N=10 (1,1/2,2,3, 3) 9.50				LIMESTONE (Drillers description)	9
											10

Remarks:

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Borehole No.

BH102

Sheet 2 of 2

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	09/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	11.45					N=42 (4,5/8,8,12 ,14)				LIMESTONE (Drillers description)	11
	14.50					14.50 50 (6,12/50 for 85mm)				End of Borehole at 14.500m	12
											13
											14
											15
											16
											17
											18
											19
											20

Remarks:

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Borehole No.

BH103

Sheet 1 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	15/01/2026 - 21/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						0.40				Soft dark brown slightly sandy CLAY.	
	1.00					N=6 (1,2/1,2,1,2)				Soft becoming firm orangish brown sandy CLAY.	1
	2.00					N=12 (1,2/3,3,3,3) 2.20 2.40				<i>Strata is very sandy.</i>	2
	3.00					N=9 (1,2/3,2,2,2) 3.40				Medium dense brownish grey silty SAND. Sand is fine to medium. Medium dense orangish brown silty clayey SAND. Sand is fine to medium.	3
	3.75					N=31 (4,6/7,8,8,8) 3.90				Medium dense light brownish grey silty SAND. Sand is fine to medium.	4
	4.75					N=13 (2,2/3,4,3,3)				Orangish brown silty SAND. Sand is fine to medium.	5
	5.70					N=43 (4,7/8,11,12,12)					6
	6.70					N=24 (4,4/6,6,5,7)					7
	7.70					7.60 N=6 (1,1/1,1,2,2)				Orangish brown silty sandy CLAY.	8
	8.70					8.70 N=32 (7,7/8,6,8,10)				Greyish yellow silty SAND. Sand is fine to medium.	9
	9.70					N=34 (6,6/7,8,8,11)					10

Remarks:

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Borehole No.

BH103

Sheet 2 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	15/01/2026 - 21/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	10.70					10.00 N=24 (4,7/9,4,5, 6) 10.80				Brownish grey silty sandy CLAY.	
										Medium dense oranish brown and grey silty clayey SAND. Sand is fine to medium.	11
	12.70					12.70 N=11 (4,5/2,3,3, 3)				Orangish brown silty sandy CLAY.	13
						14.00				Medium dense orangish brown silty clayey SAND. Sand is fine to medium.	14
	14.70					N=26 (3,3/4,4,8, 10)					15
	16.25					16.10 N=40 (8,15/15,1 0,8,7)				Medium dense orangish brown clayey sandy GRAVEL with occasional cobble. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	16
											17
	18.45					N=47 (8,8/13,11, 13,10)					18
											19
											20

Remarks:

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Borehole No.

BH103

Sheet 3 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	15/01/2026 - 21/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.45					N=16 (4,4/3,3,5, 5) 20.70 21.20				Medium dense orangish brown clayey sandy GRAVEL with occasional cobble. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	
										Firm reddish brown silty CLAY.	21
										GRAVEL (Drillers description)	22
						22.60				Limestone GRAVEL with red brown and brown clay.	23
						23.35				LIMESTONE and CLAY (Drillers description).	24
											25
											26
						26.65				LIMESTONE and CLAY, hard and soft bands (Drillers description).	27
											28
											29
											30

Remarks:

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Borehole No.

BH103

Sheet 4 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	15/01/2026 - 21/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						30.50				LIMESTONE and CLAY, hard and soft bands (Drillers description).	
	30.50 - 30.85		100	29	0					Grey slightly sandy LIMESTONE with fine to medium gravel sized inclusions and occasional shell fossils.	31
	30.85 - 32.00		61	61	14					<u>Quartzite band</u>	
	32.00 - 32.45		22	22	0					<u>Clay band.</u>	32
	32.45 - 33.50		62	52	38					<u>Very sandy band.</u>	
										<u>Very sandy band.</u>	33
	33.50 - 33.95		100	78	56					<u>Very sandy band.</u>	
						33.95				LIMESTONE (Drillers description)	34
											35
											36
											37
											38
											39
						40.00				End of Borehole at 40.000m	40

Remarks:

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Borehole No.

BH104

Sheet 1 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	05/01/2026 - 23/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						0.27				Soft dark brown silty slightly sandy CLAY.	
						0.70				Firm greyish brown silty sandy CLAY.	
	1.20					N=12 (1,2/3,2,3,4)				Firm orangish brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and mudstone.	1
	2.20					50 (2,4/50 for 280mm)				Medium dense orangish brown very clayey sandy GRAVEL with low cobble content. Gravel is subangular to rounded fine to coarse of sandstone, quartzite and limestone. Cobbles are subrounded of sandstone and limestone.	2
						2.65				COBBLES and BOULDERS (Drillers description)	3
	3.65					N=36 (5,7/7,9,10,10)					4
	4.20					N=27 (4,4/5,8,5,9)					
	4.55					N=32 (2,5/7,7,8,10)					5
	5.45					5.45 N=29 (2,4/6,7,10,6)				Very soft orangish brown very sandy CLAY.	6
	6.50					6.50 50 (4,8/50 for 115mm)				Medium dense light orangish brown clayey SAND. Sand is fine. <i>Strata is gravelly.</i>	7
	8.15					N=12 (1,1/2,2,3,5)					8
	9.15					N=11 (1,2/2,3,3,3)					9
											10

Remarks:

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Borehole No.

BH104

Sheet 2 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	05/01/2026 - 23/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	10.25					10.25 N=12 (1,3/3,3,3,3)				Medium dense light orangish brown clayey SAND. Sand is fine. <i>Strata is very clayey.</i> Firm light brown very sandy CLAY.	11
						11.40				Medium dense orangish brown clayey SAND. Sand is fine to medium.	12
	12.20					N=33 (2,4/8,7,8,10)					13
						13.80 N=23 (2,4/4,5,6,8)				Firm orangish brown sandy CLAY.	14
	14.00					14.35				Medium dense orangish brown and greyish brown clayey SAND. Sand is fine to medium	15
	15.00					N=16 (2,4/4,3,5,4)					16
						15.70				Firm light brownish grey sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone. Medium dense orangish brown clayey SAND. Sand is fine to medium.	17
	16.00					N=30 (3,5/4,7,9,10)					18
						16.10					19
	17.00					N=25 (3,3/6,7,6,6)					20
	18.30					N=26 (2,4/6,6,7,7)				Medium dense brown very clayey SAND. Sand is fine to medium.	
						18.60					

Remarks:

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Borehole No.

BH104

Sheet 3 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	05/01/2026 - 23/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	21.30					N=46 (3,9/11,11, 11,13) 21.70				Medium dense brown very clayey SAND. Sand is fine to medium. <i>Strata becoming lightly gravelly.</i>	21
	25.00					N=52 (4,8/11,13, 13,15)				Brown gravelly SAND (Drillers description).	22
											23
											24
											25
											26
										<i>Strata is very gravelly.</i>	27
											28
						29.00				SAND and GRAVEL (Drillers description).	29
											30

Remarks:

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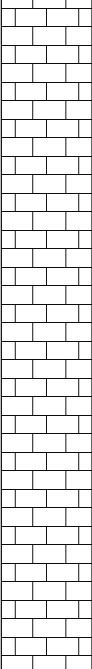
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Borehole No.

BH104

Sheet 4 of 4

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	05/01/2026 - 23/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						30.50				SAND and GRAVEL (Drillers description).	
										LIMESTONE with hard and soft bands (Drillers decription).	31
											32
											33
											34
						35.00					35
										End of Borehole at 35.000m	36
											37
											38
											39
											40

Remarks:

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Borehole No.

BH105

Sheet 1 of 2

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	12/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	2.50					2.50 N=17 (2,2/1,4,8, 4)				Top soil, silty GRAVEL (Drillers description)	1
											2
										Silty gravelly CLAY (Drillers description)	3
											4
	5.50					5.20 50 (5,10/50 for 125mm)				LIMESTONE (Drillers description)	5
											6
						7.00				LIMESTONE VOID/SOFT DRILL (Drillers description)	7
											8
						8.50				LIMESTONE (Drillers description)	9
											10
	10.00					10.00					

Remarks:

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Borehole No.

BH105

Sheet 2 of 2

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:		Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	JA
Client:	Kier Construction Limited	Dates:	12/01/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						50 (4, 12/50 for 105mm)				End of Borehole at 10.000m	
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20

Remarks:

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Borehole Log

Borehole No.

BH106

Sheet 1 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 13/01/2026 - 15/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.30				Soft dark brown sandy CLAY.	
	1.00	SPT	N=9 (2,3/3,2,2,2)					Firm orangish brown sandy gravelly GRAVEL. Gravel is subangular to subrounded fine to coarse of sandstone, quartz and limestone.	1
	2.00	SPT	N=45 (8,7/8,11,11,15)	1.70				Medium dense greyish brown sandy GRAVEL with occasional cobble. Gravel is subangular to subrounded fine to coarse of sandstone and limestone.	2
	3.50	SPT	N=7 (1,2/2,2,1,2)						3
	4.25	SPT	N=5 (1,1/1,1,1,2)	3.95				Soft becoming firm reddish brown silty slightly sandy CLAY.	4
	5.25	SPT	N=7 (1,1/1,2,2,2)						5
	6.00	SPT	50 (4,6/50 for 155mm)	6.00				Grey slightly clayey gravelly limestone COBBLES.	6
	6.85	SPT	50 (25 for 90mm/50 for 10mm)						7
	8.35	SPT	N=47 (6,8/8,12,12,15)						8
				9.67				Limestone COBBLES.	10
	11.35	SPT	N=9 (1,2/2,1,3,3)						11
				12.85				Grey sandy LIMESTONE with fine gravel sized inclusions and rare shell fossils.	13
								<i>Weak carbonate sand band.</i>	14
								<i>Weak carbonate sand band.</i>	14
								<i>Weak carbonate sand band.</i>	15
								<i>Weak carbonate sand band.</i>	15
								<i>Weak carbonate sand band.</i>	15
	15.85	SPT	50 (25 for 10mm/50 for 5mm)					<i>Weak carbonate sand band.</i>	16
				17.35				LIMESTONE, hard and soft bands (Drillers description).	17
									18
									19
									20

Remarks:

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Borehole Log

Borehole No.

BH106

Sheet 2 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 13/01/2026 - 15/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				25.00				LIMESTONE, hard and soft bands (Drillers description).	21
									22
									23
									24
									25
								End of Borehole at 25.000m	26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks:

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Geotechnical & Geoenvironmental Specialists

Borehole Log

Borehole No.

BH107

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 12/01/2026 - 12/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Top soil, sandy GRAVEL (Drillers description)	1
	2.50	SPT	N=9 (2,1/2,2,2,3)	2.50					2
				4.00				CLAY (Drillers description)	3
	5.00	SPT	50 (5,15/50 for 80mm)					LIMESTONE (Drillers description)	4
									5
									6
									7
									8
	9.00	SPT	50 (3,18/50 for 80mm)	9.00				End of Borehole at 9.000m	9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks:

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Borehole Log

Borehole No.

BH108

Sheet 1 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 12/01/2026 - 13/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				1.45				MADE GROUND: TYPE 1 GRAVEL (Drillers description)	1
	3.00	SPT	N=19 (2,4/6,5,4,4)					GRAVEL and SAND (Drillers description)	2
	6.00	SPT	N=11 (1,4/3,3,3,2)						3
	9.00	SPT	N=36 (2,6/6,9,9,12)	9.00					4
				9.70				Weathered LIMESTONE (Drillers description)	5
				11.20				LIMESTONE (Drillers description)	6
				13.00				Weak LIMESTONE (Drillers description)	7
								LIMESTONE (Drillers description)	8
	16.50	SPT	50 (8,12/50 for 105mm)						9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Remarks:

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Borehole Log

Borehole No.

BH108

Sheet 2 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 12/01/2026 - 13/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				25.00				LIMESTONE (Drillers description)	21
									22
								Varied hard and soft bands, no flush return.	23
									24
								End of Borehole at 25.000m	25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks:

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Geotechnical & Geoenvironmental Specialists

Borehole Log

Borehole No.

BH109

Sheet 1 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 26/01/2026 - 27/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								Top soil, sandy GRAVEL (Drillers description)	1
									2
	3.00	SPT	N=7 (1,1/2,1,2,2)	3.00				Loose SAND and GRAVEL (Drillers description).	3
									4
	4.50	SPT	N=6 (1,1/1,1,2,2)	4.65				Gravelly SAND (Drillers description)	5
									6
				6.15				Slightly clayey gravelly limestone COBBLES.	7
									8
	8.00	SPT	50 (25 for 80mm/50 for 10mm)						9
									10
				10.50				Limestone COBBLES.	11
									12
				12.50				No recovery.	13
									14
				14.00				Grey sandy LIMESTONE with fine gravel sized inclusions and frequent calcite veins.	15
								<i>Weak carbonate sand band.</i>	16
								<i>Weak carbonate sand band.</i>	17
								<i>Weak carbonate sand band.</i>	18
								<i>75° planar rough fracture with calcite and orange and brown staining on fracture face.</i>	19
								<i>Calcite vein.</i>	20
				17.00				<i>Dark grey residually weathered limestone band.</i>	
								<i>Dark grey residually weathered limestone band.</i>	
								No recovery.	
									18
				19.00				Grey slightly sandy LIMESTONE with frequent calcite veins.	19
									20
				19.75				LIMESTONE with hard and soft bands.	

Remarks:

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Borehole Log

Borehole No.

BH109

Sheet 2 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 26/01/2026 - 27/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				24.00				LIMESTONE with hard and soft bands.	21
									22
									23
								Possible VOID/Very loose SAND.	24
									25
									26
				27.50				LIMESTONE with hard and soft bands.	27
									28
									29
									30
				30.50				End of Borehole at 30.500m	31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks:

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Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Borehole Log

Borehole No.

BH110

Sheet 1 of 2

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 22/01/2026 - 23/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				1.00				Top soil (Drillers description).	
								Silty GRAVEL (Drillers description).	1
									2
									3
				4.00				Gravelly CLAY (Drillers description).	4
	4.50	SPT	N=4 (1,1/1,1,1,1)	4.50				Soft sandy CLAY (Drillers description).	5
									6
				7.00				Loose SAND (Drillers description).	7
	8.00	SPT	N=6 (1,1/1,1,2,2)						8
				8.50				LIMESTONE, no soft bands (Drillers description)	9
									10
	9.95	SPT	50 (25 for 145mm/50 for 10mm)						11
									12
									13
	13.00	SPT	50 (25 for 95mm/50 for 10mm)					No flush returns.	14
									15
									16
									17
									18
									19
									20

Remarks:

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Borehole Log

Borehole No.

BH110

Sheet 2 of 2

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
RO

Location: Ewenny Road, Bridgend

Level:

Scale
1:100

Client: Kier Construction Limited

Dates: 22/01/2026 - 23/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				25.00				LIMESTONE, no soft bands (Drillers description)	21
									22
									23
									24
									25
								End of Borehole at 25.000m	26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks:

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Borehole No.

BH111

Sheet 1 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290155.00 - 178239.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	04/02/2026 - 05/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						3.00				Topsoil, Sand and Gravel [Drillers Description]	1
											2
											3
										Sand gravel onto soft clay [Drillers Description]	4
											5
						6.00					6
										Limestone [Drillers Description]	7
											8
											9
	9.00 - 9.50		100	80	42	9.00				Medium strong light grey fine grained LIMESTONE recovered as limestone cobbles.	10

Remarks:

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Borehole No.

BH111

Sheet 2 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290155.00 - 178239.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	04/02/2026 - 05/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	9.50 - 11.00		44	11	0					Medium strong light grey fine grained LIMESTONE recovered as limestone cobbles.	11
	11.00 - 12.50		29	9	9						12
	12.50 - 14.00		0	0	0	12.50				No recovery, Very soft/Void [Drillers Description]	13
	14.00 - 15.50		0	0	0						14
	15.50 - 17.00		0	0	0						15
	17.00 - 18.50		94	9	9	17.00					16
	18.50 - 20.00		100	100	86	18.00				Soft orangish brown slightly gravelly sandy CLAY. Gravel is angular and subangular fine to coarse limestone.	17
											18
										Medium strong light grey coarse grained fossiliferous LIMESTONE with rare calcite veining. Fractures are very close to widely spaced subhorizontal to 20° planar rough with dark grey staining.	19
											20

Remarks:

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Borehole No.

BH111

Sheet 3 of 3

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290155.00 - 178239.00	Hole Type	RC
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Location:	Ewenny Road, Bridgend	Level:		Scale	1:50
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Client:	Kier Construction Limited	Dates:	04/02/2026 - 05/02/2026	Logged By	BW
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Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.00 - 21.50		92	92	73					Medium strong light grey coarse grained fossiliferous LIMESTONE with rare calcite veining. Fractures are very close to widely spaced subhorizontal to 20° planar rough with dark grey staining.	21
	21.50 - 23.00		100	95	69						22
						23.00				Limestone [Drillers Description]	23
											24
											25
											26
											27
						28.00					28
										End of Borehole at 28.000m	29
											30

Remarks:

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Borehole No.

BH112

Sheet 1 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290146.00 - 178227.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	02/02/2026 - 04/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						3.00				Topsoil, Sand and Gravel [Drillers Description]	1
											2
											3
										Sand gravel [Drillers Description]	4
											5
						6.00					6
						6.15				Firm reddish brown CLAY.	
	6.00 - 8.00		24	0	0					Medium strong light grey fine grained LIMESTONE. Fractures are subhorizontal to 15° very closely to closely spaced planar rough.	7
	8.00 - 8.45		49	31	0						8
	8.45 - 9.50		68	34	11						9
						9.50				No recovery, Very soft/Void [Drillers Description]	10

Remarks:

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Borehole No.

BH112

Sheet 2 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290146.00 - 178227.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	02/02/2026 - 04/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	9.50 - 11.00		0	0	0	11.00				No recovery, Very soft/Void [Drillers Description]	
	11.00 - 11.40		75	43	28					Medium strong light grey fine grained LIMESTONE. Fractures are subhorizontal to 15° very closely to closely spaced planar rough.	11
	11.40 - 12.50		46	24	9	12.50					12
	12.50 - 14.00		0	0	0					No recovery, Very soft/Void [Drillers Description]	13
	14.00 - 15.50		15	9	9	15.50					14
	15.50 - 17.00		0	0	0						15
	17.00 - 18.50		0	0	0	18.50					16
	18.50 - 20.00		93	65	56					Soft brown slightly gravelly sandy CLAY. Gravel is angular and subangular fine and medium limestone.	17
										Medium strong light grey mottled dark grey fine grained calcareous BRECCIA. Fracture set 1 is subhorizontal to 20° very closely to medium spaced planar rough. Fracture set 2 is 80° closely spaced planar smooth.	18
											19
											20

Remarks:

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Borehole No.

BH112

Sheet 3 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290146.00 - 178227.00	Hole Type	RC
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Location:	Ewenny Road, Bridgend	Level:		Scale	1:50
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Client:	Kier Construction Limited	Dates:	02/02/2026 - 04/02/2026	Logged By	BW
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Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.00 - 21.50		97	88	76					Medium strong light grey mottled dark grey fine grained calcareous BRECCIA. Fracture set 1 is subhorizontal to 20° very closely to medium spaced planar rough. Fracture set 2 is 80° closely spaced planar smooth. <i>Becomes coarse grained.</i>	21
	21.50 - 23.00		100	79	65					<i>Clasts become more rounded.</i>	22
						23.00				End of Borehole at 23.000m	23
											24
											25
											26
											27
											28
											29
											30

Remarks:

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Borehole No.

BH113

Sheet 1 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290124.00 - 178226.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	FL
Client:	Kier Construction Limited	Dates:	02/02/2026 - 03/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						3.00				Topsoil, Sand and Gravel [Drillers Description]	1
											2
										Sand and Gravel [Drillers Description]	3
											4
											5
						6.00				Sand, Gravel Limestone, Cobbles, Boulders [Drillers Description]	6
											7
											8
											9
											10

Remarks:

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Borehole No.

BH113

Sheet 2 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290124.00 - 178226.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	FL
Client:	Kier Construction Limited	Dates:	02/02/2026 - 03/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						14.00				Sand, Gravel Limestone, Cobbles, Boulders [Drillers Description]	11
											12
											13
						16.50				Reddish brown clayey gravelly limestone COBBLES	14
	15.50 - 17.00		66	50	33						15
											16
	17.00 - 18.50		80	73	73	18.40				Strong thickly to very thickly bedded dark grey fine to coarse LIMESTONE with medium to coarse breccia and occasional coarse angular to sub angular gravel inclusions of limestone and occasional veins of calcite. Fractures are planar rough, 0-40 degrees.	17
											18
	18.50 - 20.00		0	0	0					No Recovery, Possible Void/Soft Sand [Drillers Description] 0.10m of clay present in liner	19
						20.00					20

Remarks:

DRAFT



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Borehole No.

BH113

Sheet 3 of 3

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290124.00 - 178226.00	Hole Type	RC
---------------	-------------------------------	-------------	--------------	----------	-----------------------	-----------	----

Location:	Ewenny Road, Bridgend	Level:		Scale	1:50
-----------	-----------------------	--------	--	-------	------

Client:	Kier Construction Limited	Dates:	02/02/2026 - 03/02/2026	Logged By	FL
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Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.00 - 21.50		100	80	40					Strong thinly to very thickly bedded dark grey fine to coarse LIMESTONE with occasional coarse angular to sub angular gravel inclusions of limestone. Fractures are horizontal to sub-horizontal planar rough, 0-20 degrees. High content of Gryphaea Bivalve fossils between 21.3 to 21.5m. Fine to coarse angular breccia present from 21.0 to 21.3m.	21
	21.50 - 23.00		100	60	20						22
						23.00				Hard Limestone [Drillers Description]	23
											24
											25
											26
											27
						28.00					28
										End of Borehole at 28.000m	29
											30

Remarks:

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Borehole No.

BH116

Sheet 1 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290161.00 - 178220.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	09/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										Top soil, Gravel, Sand [Drillers Description]	
											1
											2
											3
											4
											5
											6
											7
											8
											9
											10

Remarks:

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Borehole No.

BH116

Sheet 2 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290161.00 - 178220.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	09/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										Top soil, Gravel, Sand [Drillers Description]	11
											12
											13
						14.00					14
	14.00 - 15.50		43	0	0	14.80				No recovery, Very soft/Void [Drillers Description]	15
						15.30				Orangish brown slightly gravelly clayey fine to coarse SAND.	16
						15.50				Red sub angular to rounded fine to coarse sandstone GRAVEL.	17
	15.50 - 17.00		43	9	9	16.15				No recovery, Very soft/Void [Drillers Description]	18
						16.50				Firm reddish brown gravelly CLAY. Gravel is angular and subangular fine to coarse limestone.	19
										Medium strong light grey fine grained LIMESTONE recovered as limestone cobbles.	20
	17.00 - 18.50		49	15	8						
	18.50 - 20.00		49	19	7						

Remarks:

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Borehole No.

BH116

Sheet 3 of 4

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290161.00 - 178220.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	09/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.00 - 21.50		25	21	14					Medium strong light grey fine grained LIMESTONE recovered as limestone cobbles.	21
										<i>Calcareous Breccia.</i>	22
	21.50 - 23.00		29	20	7						23
						23.00				Limestone clay [Drillers Description]	24
											25
						24.50				Void/ very soft [Drillers Description]	26
											27
											28
						28.15				Hard/ soft bands [Drillers Description]	29
											30

Remarks:

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Borehole No.

BH116

Sheet 4 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290161.00 - 178220.00	Hole Type	RC
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Location:	Ewenny Road, Bridgend	Level:		Scale	1:50
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Client:	Kier Construction Limited	Dates:	09/02/2026	Logged By	BW
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Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						30.50				Hard/ soft bands [Drillers Description]	
										Limestone occasional small soft band [Drillers Description]	31
											32
											33
											34
						35.00					35
										End of Borehole at 35.000m	36
											37
											38
											39
											40

Remarks:

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Borehole No.

BH117

Sheet 1 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290198.00 - 178229.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	09/02/2026 - 10/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										Topsoil, Gravel, Sand [Drillers Description]	
											1
											2
											3
											4
											5
											6
											7
											8
											9
											10

Remarks:

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Borehole No.

BH117

Sheet 2 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290198.00 - 178229.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	09/02/2026 - 10/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										Topsoil, Gravel, Sand [Drillers Description]	11
											12
											13
	13.00 - 14.45		45	0	0	13.80					
										Orangish brown slightly gravelly clayey fine to coarse SAND.	14
											15
	14.45 - 16.00		77	26	0	15.22				No recovery, Very soft/Void [Drillers Description]	16
											17
											18
						18.30					
						18.70				Firm orangish brown mottled reddish brown sandy CLAY.	
										Medium strong light grey LIMESTONE. Fractures are subhorizontal to 20° very closely to closely spaced planar smooth.	19
											20
	19.00 - 20.45		46	30	19						

Remarks:

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Borehole No.

BH117

Sheet 3 of 4

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290198.00 - 178229.00	Hole Type	RC
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Location:	Ewenny Road, Bridgend	Level:		Scale	1:50
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Client:	Kier Construction Limited	Dates:	09/02/2026 - 10/02/2026	Logged By	BW
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Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.45 - 22.50		20	20	8					Medium strong light grey LIMESTONE. Fractures are subhorizontal to 20° very closely to closely spaced planar smooth.	21
											22
	22.50 - 24.50		35	13	13						23
											24
	24.50 - 26.00		75	29	9						25
											26
	26.00 - 27.50		33	9	0						27
						27.50					
	27.50 - 29.00		0	0	0					No recovery, Very soft/Void [Drillers Description]	28
											29
	29.00 - 30.50		0	0	0						30

Remarks:

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Borehole No.

BH117

Sheet 4 of 4

Project Name:	Heronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290198.00 - 178229.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	BW
Client:	Kier Construction Limited	Dates:	09/02/2026 - 10/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										No recovery, Very soft/Void [Drillers Description]	
	30.50 - 31.00		0	0	0	31.00					
	31.00 - 32.50		45	5	0	32.50				Dark grey stained orangish brown sandy subangular and subrounded fine to coarse sandstone GRAVEL.	31
										End of Borehole at 32.500m	32
											33
											34
											35
											36
											37
											38
											39
											40

Remarks:



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BH118

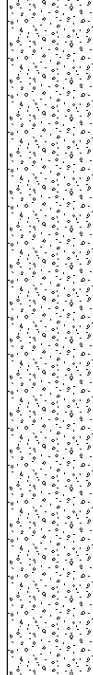
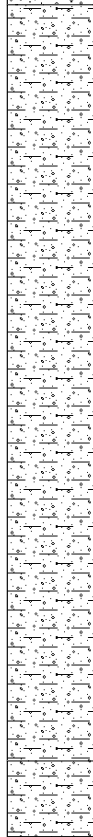
Project Name:	Héronsbridge School, Bridgend
---------------	----------------------------------

Co-ords:	290183.00 - 178216.00
----------	-----------------------

Location: Eweny Road, Bridgend

Scale
1:50

Logged By
FL

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
						4.50				Top Soil, Sand Gravel [Drillers Description]	1
										2	
										3	
										4	
						9.50				Orangish brown very clayey slightly sandy angular to sub rounded fine to coarse GRAVEL of sandstone and limestone with medium content of sub rounded limestone cobbles	5
										6	
										7	
										8	
										9	
										Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	10

Remarks:	
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Borehole No.

BH118

Sheet 2 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290183.00 - 178216.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	FL
Client:	Kier Construction Limited	Dates:	10/02/2026 - 12/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
										Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	11
											12
											13
											14
											15
											16
											17
											18
	18.50 - 19.30		50	0	0	18.40				Orangish brown very clayey slightly sandy angular to sub rounded fine to coarse GRAVEL of sandstone and limestone with medium content of sub rounded limestone cobbles	19
	19.30 - 20.00		36	0	0						20
						20.00					

Remarks:

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Borehole No.

BH118

Sheet 3 of 3

Project Name:	Héronsbridge School, Bridgend	Project No.	TF-25-430-CA	Co-ords:	290183.00 - 178216.00	Hole Type	RC
Location:	Ewenny Road, Bridgend	Level:		Scale	1:50	Logged By	FL
Client:	Kier Construction Limited	Dates:	10/02/2026 - 12/02/2026				

Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Well	Legend	Stratum Description	
			TCR	SCR	RQD						
	20.00 - 21.50		77	40	33					Strong thin to thick bedded dark grey LIMESTONE with coarse angular to sub angular gravel inclusions of limestone and yellowish brown clay with frequent veins of calcite. Fractures are planar rough, 0-35 degrees.	21
	21.50 - 23.00		77	33	20						22
	23.00 - 24.50		33	7	0	24.00					23
						24.50				Grey clayey GRAVEL of angular to sub angular limestone.	24
										Limestone with occasional soft bands [Drillers Description]	25
											26
											27
											28
											29
						30.00				End of Borehole at 30.000m	30

Remarks:

ANNEX C
Windowless Sampler Borehole Logs



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Borehole Log

Borehole No.

WS402

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
WS

Location: Ewenny Road, Bridgend

Level:

Scale
1:50

Client: Kier Construction Limited

Dates: 07/01/2026 - 07/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.30				Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone. Firm orangish brown sandy CLAY.	
	1.00	SPT	N=12 (1,2/2,2,4,4)	1.20					1
	2.00	SPT	N=30 (4,7/10,8,6,6)					Medium dense light orangish brown clayey gravelly SAND with low cobble content. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular of limestone.	2
	3.00	SPT	N=25 (8,8/9,5,6,5)						3
	4.00	SPT	N=2 (0,0/0,0,1,1)	3.70				Soft reddish brown silty CLAY.	4
	5.00	SPT	N=4 (1,1/0,1,2,1)	5.00				<u>Silt band.</u>	5
								End of Borehole at 5.000m	
									6
									7
									8
									9
									10

Remarks:

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Borehole Log

Borehole No.

WS404

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
WS

Location: Ewenny Road, Bridgend

Level:

Scale
1:50

Client: Kier Construction Limited

Dates: 07/01/2026 - 07/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.45				Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
	1.00	SPT	N=13 (1,2/1,3,4,5)	1.15				Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and limestone.	1
	2.00	SPT	N=17 (1,2/4,4,4,5)	2.24				Medium dense light orangish brown very clayey gravelly SAND. Gravel is angular to subrounded fine to coarse of sandstone, limestone and quartz.	2
				2.55				Medium dense orangish brown clayey sandy GRAVEL. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	
	3.00	SPT	N=22 (3,4/5,5,6,6)					Medium dense orangish brown clayey SAND.	3
	4.00	SPT	N=31 (4,4/6,6,8,11)						4
	5.00	SPT	N=41 (5,8/7,10,11,13)	5.00				End of Borehole at 5.000m	5
									6
									7
									8
									9
									10

Remarks:

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Borehole Log

Borehole No.

WS410

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
WS

Location: Ewenny Road, Bridgend

Level:

Scale
1:50

Client: Kier Construction Limited

Dates: 07/01/2026 - 07/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.35				Soft dark brown sandy CLAY.	
	1.00	SPT	N=5 (1,1/1,1,1,2)					Firm becoming soft orangish brown sandy CLAY.	1
	2.00	SPT	N=26 (4,5/5,6,7,8)	1.55				Medium dense light orangish brown very clayey gravelly SAND. Gravel is angular to subrounded fine to coarse of sandstone, limestone and mudstone.	2
	3.00	SPT	N=21 (5,6/7,5,5,4)					<u>Strata is slightly clayey.</u>	3
	4.00	SPT	N=50 (9,9/12,13,10,15)	4.00				End of Borehole at 4.000m	4
									5
									6
									7
									8
									9
									10

Remarks:

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Geotechnical & Geoenvironmental Specialists

Borehole Log

Borehole No.

WS411

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
WS

Location: Ewenny Road, Bridgend

Level:

Scale
1:50

Client: Kier Construction Limited

Dates: 07/01/2026 - 07/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.30				Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
	1.00	SPT	N=3 (1,0/1,0,0,2)	1.45				Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and limestone.	1
	2.00	SPT	N=19 (2,3/3,5,5,6)					Medium dense light orangish brown clayey gravelly SAND. Gravel is angular to subrounded fine to coarse of sandstone, limestone and mudstone.	2
	3.00	SPT	N=28 (5,5/6,7,7,8)						3
	4.00	SPT	N=3 (1,1/1,1,1,0)	4.10					4
	5.00	SPT	N=3 (0,1/1,0,1,1)	5.00				Soft reddish brown silty CLAY.	
								End of Borehole at 5.000m	5
									6
									7
									8
									9
									10

Remarks:

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Borehole Log

Borehole No.

WS412

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
WS

Location: Ewenny Road, Bridgend

Level:

Scale
1:50

Client: Kier Construction Limited

Dates: 07/01/2026 - 07/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.35				Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
	1.00	SPT	N=7 (1,1/2,2,2,1)					Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and limestone.	1
	2.00	SPT	N=15 (1,2/3,3,4,5)	2.15					2
	3.00	SPT	N=11 (3,3/3,3,2,3)					Medium dense orangish brown clayey SAND.	3
	4.00	SPT	N=12 (2,2/3,4,3,2)						4
	5.00	SPT	N=24 (3,4/6,6,5,7)	5.00				End of Borehole at 5.000m	5
									6
									7
									8
									9
									10

Remarks:

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Borehole Log

Borehole No.

WS413

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords:

Hole Type
WS

Location: Ewenny Road, Bridgend

Level:

Scale
1:50

Client: Kier Construction Limited

Dates: 07/01/2026 - 07/01/2026

Logged By
JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.20				Soft dark brown sandy CLAY.	
				0.50				Firm orangish brown sandy CLAY.	
	1.00	SPT	N=17 (2,3/4,5,4,4)					Medium dense becoming dense orangish brown clayey sandy GRAVEL with medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone, mudstone and limestone. Cobbles are subangular of limestone.	1
	2.00	SPT	N=40 (6,7/8,11,11,10)						2
	3.00	SPT	50 (9,10/50 for 270mm)	3.00				End of Borehole at 3.000m	3
									4
									5
									6
									7
									8
									9
									10

Remarks:



Terra Firma

Phone:

Geotechnical Log - Borehole

WS401

UTM : 30U	Drill Rig : Archway Dart	Job Number : TF-25-430-CA
Latitude : 51.49209	Driller Supplier : Terra Firma	Client : Cambrian
Longitude : -3.58424	Logged By : Sam Williams	Project : Heronsbridge School
Ground Elevation : 90.03 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.45 m BGL	Date : 09/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.30 m - ES 0.50 m - B att	1-1-2-1-1-1 N = 5	0.26		Reddish brown mottled green and white slightly gravelly fine to coarse sandy organic CLAY. Gravel is fine and medium subangular to subrounded sandstone. With abundance of roots and rootlets.	1.0
		1.11		Reddish brown mottled black slightly gravelly fine to coarse sandy CLAY. Gravel is predominately fine with frequent medium size gravels, all gravels are subangular to subrounded of sandstone.	
		1.62		Organish brown slightly gravelly silty fine to coarse sandy CLAY. Gravel is fine and medium subangular to subrounded of sandstone.	
	1-1-2-2-2-2 N = 8	2.32		Dense light yellowish brown mottled grey slightly clayey fine to coarse very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded of predominantly sandstone with occasional quartz and limestone.	2.0
		2.76		Yellowish brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse subangular to subrounded of sandstone.	
	6-6-5-7-5-5 N = 22	4.62		Dense to very dense yellowish brown mottled grey slightly clayey gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded of sandstone with occasional quartz.	3.0
		5		Light brown mottled grey slightly clayey fine to coarse very sandy GRAVEL. Gravel is fine to coarse subangular to subrounded of sandstone and occasional quartz.	
	3-3-4-3-3-3 N = 13				4.0
	3-2-2-2-3-4 N = 11			CPT Test - No recovery	5.0
				WS401 Terminated at 5.45 m	



Terra Firma

Phone:

Geotechnical Log - Borehole

WS403

UTM : 30U	Drill Rig : Archway Dart	Job Number : TF-25-430-CA
Latitude : 51.49250	Driller Supplier : Terra Firma	Client : Cambrian
Longitude : -3.58370	Logged By : Sam Williams	Project : Heronsbridge School
Ground Elevation : 89.60 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.45 m BGL	Date : 09/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.30 m - ES	1-1-1-2-2-1 N = 6	0.08		Soft to very soft reddish brown mottled black green and white slightly silty sandy slightly gravelly organic CLAY. Sand is fine to coarse, gravel is fine and medium subangular to subrounded of sandstone and quartz. With frequent roots and rootlets.	1.0
		0.24		Soft to very soft reddish brown mottled black slightly silty sandy slightly gravelly CLAY. Sand is fine to coarse, gravel is fine and medium subangular to subrounded of sandstone and quartz.	
4.00 m - B Atterberg	1-0-1-2-3-3 N = 9			Soft to firm yellowish brown mottled black and purple sandy slightly gravelly CLAY. Sand is fine to coarse, Gravel is fine to coarse subangular to subrounded of sandstone and quartz. With occasional pockets (<10cm) of fine to coarse sand and fine and medium subangular to subrounded gravels.	2.0
	1-0-1-2-2-2 N = 7				3.0
	1-1-2-2-3-3 N = 10				4.0
	25-0-50/30mm-0-0-0 N = 50+				5.0
				WS403 Terminated at 5.45 m	



Terra Firma

Phone:

Geotechnical Log - Borehole

WS406

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49229	Driller Supplier :	Client : Cambrian
Longitude : -3.58355	Logged By : Benjamin Walder	Project : Heronsbridge School
Ground Elevation : 27.37 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 1.8 m BGL	Date : 12/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.30 m - ES				MADE GROUND. Light grey and grey sandy GRAVEL. Gravel is angular to sub-angular fine to coarse limestone. Sand is fine to coarse.	
		1.1			1.0
1.50 m - D	2-6-5-5-6-4 N = 20			Soft orangish brown slightly sandy silty CLAY. Sand is fine to coarse.	
	25-0-50/20mm-0-0-0 N = 50+				
				WS406 Refusal at 1.8 m	



Terra Firma

Geotechnical Log - Borehole

WS407

Phone:

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49226	Driller Supplier :	Client : Cambrian
Longitude : -3.58400	Logged By : Sam Williams	Project : Heronsbridge School
Ground Elevation : 89.90 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.45 m BGL	Date : 09/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.10 m - ES		0.11		Reddish brown mottled white and green slightly silty slightly gravelly fine to coarse sandy organic CLAY. Gravel is fine to coarse subangular to subrounded of sandstone.	
		0.28		Reddish brown mottled black and grey slightly silty slightly gravelly fine to coarse sandy CLAY. Gravel is fine and medium subangular to subrounded of sandstone.	
0.50 m - B att				Yellowish brown mottled black fine to coarse sandy gravelly CLAY. Gravel is fine and medium subangular to subrounded of sandstone.	
	2-2-3-4-5-5 N = 17	0.91		Yellowish brown mottled white and grey fine to coarse sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded of sandstone and quartz.	1.0
		1.77		Organish brown mottled grey and black slightly gravelly very fine to coarse sandy CLAY. Gravel is fine to coarse subangular to subrounded of predominantly sandstone with frequent quartz.	2.0
	2-1-1-1-0-1 N = 3	2.11		Yellowish grey slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse subangular to subrounded of sandstone.	
		2.68		Light greyish yellow mottled white and purple slightly clayey slightly gravelly fine to coarse SAND. Gravel is fine and medium subangular to subrounded of sandstone and quarts.	3.0
	1-1-1-2-1-2 N = 6	3.12		Yellowish brown mottled white slightly gravelly very fine to coarse sandy CLAY. Gravel is fine to coarse subangular to subrounded of sandstone and quartz with occasional limestone.	4.0
	1-1-2-3-2-1 N = 8				
		5		CPT Test - No recovery	5.0
	1-0-1-2-3-3 N = 9				
				WS407 Terminated at 5.45 m	



Terra Firma

Phone:

Geotechnical Log - Borehole

WS408

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49242	Driller Supplier :	Client : Cambrian
Longitude : -3.58380	Logged By : Sam Williams	Project : Heronsbridge School
Ground Elevation : 89.70 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.45 m BGL	Date : 09/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.20 m - ES		0.15		Soft to very soft reddish brown mottled green and white slightly silty slightly gravelly fine to coarse sandy CLAY. Gravel is fine and medium subangular to subrounded of sandstone.	
		0.29		Soft to very soft reddish brown mottled white slightly silty slightly gravelly fine to coarse sandy CLAY. Gravel is fine to coarse subangular to subrounded of sandstone and quartz.	
				Very soft to soft yellowish brown mottled white very sandy slightly gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse subangular to subrounded of sandstone and quartz.	1.0
1.50 m - B	0-1-1-1-1-1 N = 4	1.24		Soft to firm brownish yellow mottled grey very sandy slightly gravelly CLAY. Sand is fine to coarse gravel is predominantly fine with occasional medium sized gravel of sandstone and quartz.	
		2.11		Dense yellowish brown mottled grey, purple and white slightly clayey sandy GRAVEL. Sand is fine to coarse, gravel predominantly is fine and medium with occasional coarse sized gravel subangular to subrounded of sandstone and quartz.	2.0
	2-2-3-2-2-2 N = 9				3.0
	1-0-1-1-0-2 N = 4	3.74		Soft to firm reddish brown mottled black very sandy slightly gravelly CLAY. Sand is fine to coarse, Gravel is fine and medium subangular to subrounded of sandstone and quartz with occasional fine and medium subangular limestone gravel.	4.0
	0-1-1-2-1-0 N = 4				
	1-1-1-0-1-2 N = 4	5		CPT Test - No recovery	5.0
				WS408 Terminated at 5.45 m	



Terra Firma

Phone:

Geotechnical Log - Borehole

WS409

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49229	Driller Supplier :	Client : Cambrian
Longitude : -3.58355	Logged By : Benjamin Walder	Project : Heronsbridge School
Ground Elevation : 27.37 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 4.45 m BGL	Date : 12/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.20 m - ES		0.4		TOPSOIL. Brown sandy clayey SILT. Sand is fine to coarse.	
1.80 m - D	2-2-1-2-2-2 N = 7			Soft orangish brown slightly sandy silty CLAY. Sand is fine to coarse.	1.0
	1-2-2-4-5-5 N = 16	2.5		Reddish brown mottled light grey sandy clayey GRAVEL Gravel is sub-angular to rounded fine to coarse sandstone. Sand is fine to coarse.	2.0
	3-5-5-5-5-4 N = 19				3.0
	6-7-8-11-13-18 N = 13	4		CPT test - No recovery.	4.0
				WS409 Terminated at 4.45 m	



Terra Firma

Geotechnical Log - Borehole

WS414

Phone:

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49229	Driller Supplier :	Client : Cambrian
Longitude : -3.58355	Logged By : Benjamin Walder	Project : Heronsbridge School
Ground Elevation : 27.37 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.45 m BGL	Date : 12/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.20 m - ES		0.5		TOPSOIL. Brown sandy clayey SILT. Sand is fine to coarse.	
1.80 m - D	1-0-1-0-1-1 N = 3			Soft orangish brown slightly sandy silty CLAY. Sand is fine to coarse.	1.0
	0-1-1-0-1-0 N = 2	2.3		Reddish brown mottled light grey sandy clayey GRAVEL. Gravel is sub-angular to rounded fine to coarse sandstone. Sand is fine to coarse.	2.0
	2-5-3-3-4-4 N = 14	4		Soft orangish brown slightly sandy silty CLAY. Sand is fine to coarse.	3.0
	1-0-1-1-0-2 N = 4	5			4.0
	1-2-2-1-2-2 N = 7			CPT test - No recovery.	5.0
				WS414 Terminated at 5.45 m	



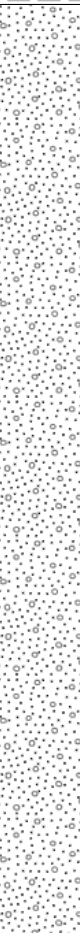
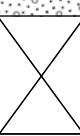
Terra Firma

Phone:

Geotechnical Log - Borehole

WS415

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49229	Driller Supplier :	Client : Cambrian
Longitude : -3.58355	Logged By : Benjamin Walder	Project : Heronsbridge School
Ground Elevation : 27.37 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.45 m BGL	Date : 12/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
0.80 m - ES		1		MADE GROUND. Light grey and grey sandy GRAVEL. Gravel is angular to sub-angular fine to coarse limestone. Sand is fine to coarse.	1.0
1.20 m - D	2-2-2-5-5-6 N = 18	1.4		Soft orangish brown slightly sandy silty CLAY. Sand is fine to coarse.	
	2-3-4-6-7-7 N = 24			Reddish brown mottled light grey sandy clayey GRAVEL. Gravel is sub-angular to rounded fine to coarse sandstone. Sand is fine to coarse.	2.0
	3-4-7-8-7-9 N = 31				3.0
	4-6-7-11-8-7 N = 33				4.0
	4-5-4-4-5-6 N = 19	5		CPT test - No recovery.	5.0
				WS415 Terminated at 5.45 m	



Terra Firma

Geotechnical Log - Borehole

WS405

Phone:

UTM : 30U	Drill Rig :	Job Number : TF-25-430-CA
Latitude : 51.49229	Driller Supplier :	Client : Cambrian
Longitude : -3.58355	Logged By : Benjamin Walder	Project : Heronsbridge School
Ground Elevation : 27.37 (m)	Reviewed By :	Location : Bryn Derwen, Ewenny, Bridgend CF35 5AJ, UK
Total Depth : 5.17 m BGL	Date : 12/01/2026	Loc Comment :

Sample Depth (m)	Test Results	Depth (m)	Legend	Stratum Description	Depth Scale
		0.3		TOPSOIL. Brown sandy clayey SILT. Sand is fine to coarse.	
	1-1-2-2-3-3 N = 10			Soft orangish brown slightly sandy silty CLAY. Sand is fine to coarse.	1.0
	2-2-2-2-3-3 N = 10				2.0
	1-1-2-2-1-2 N = 7				3.0
	2-2-3-3-4-11 N = 21	4		Reddish brown mottled light grey sandy clayey GRAVEL Gravel is sub-angular to rounded fine to coarse sandstone. Sand is fine to coarse.	4.0
	18-7-40-10-0-0 N = 50+	5		CPT test - No recovery.	5.0
				WS405 Terminated at 5.17 m	

ANNEX D
Laboratory Chemical
Test Results



Certificate of Analysis

Certificate Number 26-01258

Issued: 04-Feb-26

Client Terra Firma Group
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Our Reference 26-01258

Client Reference ~ TF-25-430-CA

Order No ~ 25-430

Contract Title ~ Heronbridge School Bridge

Description 11 Soil samples, 18 Leachate prepared by DETS samples.

Date Received 21-Jan-26

Date Started 21-Jan-26

Date Completed 04-Feb-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "R Irfan".

Reyhan Irfan
Operations Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 26-01258

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronbridge School Bridge

Lab No	2628410	2628411	2628412	2628413	2628414	2628415	2628416
Sample ID ~	SA312	TP01	TP01	TP02	TP03	TP03	SA307
Depth ~	0.60	1.00	2.00	0.90	1.00	2.20	0.80
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Preparation										
Stones Removed	DETSC 1003*	0	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Moisture Content	DETSC 1004	0.1	%	11	11	9.0	11	11	8.0	12
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	12	10	10	9.7	11	11	14
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.5	0.3	< 0.2	< 0.2	< 0.2	< 0.2	0.2
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	21	19	18	17	19	20	27
Chromium III	DETSC 2301*	0.15	mg/kg	21	19	18	17	19	20	27
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	18	15	16	14	13	17	23
Lead	DETSC 2301#	0.3	mg/kg	25	18	18	20	25	15	33
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l							
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	29	27	30	24	22	32	35
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	80	67	76	67	54	83	90
Inorganics										
pH	DETSC 2008#		pH	7.8	7.7	8.2	7.9	7.7	7.4	5.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	0.4	0.3	0.3	0.7	0.2	0.2	0.5
Ammonia Aqueous Extract as N	DETSC 2119*	10	mg/l							
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l							
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l							
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l							
Sulphur as S, Total	DETSC 2320	0.01	%							
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.02	0.02	0.02	0.02	0.01	0.02	0.02
Petroleum Hydrocarbons										
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Summary of Chemical Analysis

Soil Samples

Our Ref 26-01258

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronbridge School Bridge

Lab No	2628410	2628411	2628412	2628413	2628414	2628415	2628416
Sample ID ~	SA312	TP01	TP01	TP02	TP03	TP03	SA307
Depth ~	0.60	1.00	2.00	0.90	1.00	2.20	0.80
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	0.5	0.6	0.4

Summary of Chemical Analysis

Soil Samples

Our Ref 26-01258

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronbridge School Bridge

Lab No	2628417	2628418	2628419	2628420
Sample ID ~	SA312	SA301	SA303	SA308
Depth ~	1.50	0.10	0.50	2.00
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/01/2026	19/01/2026	19/01/2026	19/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Preparation							
Stones Removed	DETSC 1003*	0	%		0.0	0.0	0.0
Moisture Content	DETSC 1004	0.1	%		22	12	16
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg		12	9.7	12
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg		0.4	0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg		0.3	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg		20	20	17
Chromium III	DETSC 2301*	0.15	mg/kg		20	20	17
Chromium, Hexavalent	DETSC 2204*	1	mg/kg		< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg		20	14	17
Lead	DETSC 2301#	0.3	mg/kg		38	26	20
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l	< 10			
Mercury	DETSC 2325#	0.05	mg/kg		< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg		16	22	21
Selenium	DETSC 2301#	0.5	mg/kg		0.7	< 0.5	1.1
Zinc	DETSC 2301#	1	mg/kg		76	58	72
Inorganics							
pH	DETSC 2008#		pH	7.9	7.4	7.4	7.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg		0.2	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%		3.6	0.5	0.5
Ammonia Aqueous Extract as N	DETSC 2119*	10	mg/l	< 10			
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l	6.0			
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l	6.6			
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	11			
Sulphur as S, Total	DETSC 2320	0.01	%	< 0.01			
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.02	0.05	0.02	0.02
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg		< 1.2	< 1.2	< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg		< 3.4	< 3.4	< 3.4
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg		< 3.4	< 3.4	< 3.4
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg		< 10	< 10	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg		< 0.9	< 0.9	< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg		< 0.5	< 0.5	< 0.5

Summary of Chemical Analysis

Soil Samples

Our Ref 26-01258

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronbridge School Bridge

Lab No	2628417	2628418	2628419	2628420
Sample ID ~	SA312	SA301	SA303	SA308
Depth ~	1.50	0.10	0.50	2.00
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/01/2026	19/01/2026	19/01/2026	19/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg		< 0.6	< 0.6	< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg		< 1.4	< 1.4	< 1.4
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg		< 1.4	< 1.4	< 1.4
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg		< 10	< 10	< 10
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg		< 10	< 10	< 10
PAHs							
Naphthalene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg		< 1.6	< 1.6	< 1.6
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		1.0	0.4	0.4

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id SA312 0.60

Sample Numbers 2628410 2628421 2628422

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	< 0.5			3	5	6
DETSC 2003# Loss On Ignition	%	2.3			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.8			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	15.15	15.58	0.03	0.156	0.5	2	25
DETSC 2306 Barium as Ba	72.83	74.19	0.15	0.74	20	100	300
DETSC 2306 Cadmium as Cd	0.0921	0.0911	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	46.81	46.68	0.09	0.47	0.5	10	70
DETSC 2306 Copper as Cu	27.85	28.24	0.056	0.282	2	50	100
DETSC 2306 Mercury as Hg	0.0236	0.0299	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.14	1.89	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	62.26	62.78	0.12	0.63	0.4	10	40
DETSC 2306 Lead as Pb	12.92	13.47	0.03	0.134	0.5	10	50
DETSC 2306 Antimony as Sb	0.8488	0.8197	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.094	1.122	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	53.15	58.97	0.106	0.587	4	50	200
DETSC 2055 Chloride as Cl	2000	1500	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	210	210	0.42	2.1	10	150	500
DETSC 2055 Sulphate as SO4	2600	2400	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	29000	28000	58	280.4	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	9800	9200	19.6	92.3	500	800	1000

Additional Information		
DETSC 2008 pH	6.9	6.8
DETSC 2009 Conductivity uS/cm	41.8	40.6
* Temperature*	17.0	16.0

Mass of Sample Kg	0.196
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.329
Volume of Eluate VE1	0.075

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.62

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions.
 Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id TP01 1.00

Sample Numbers 2628411 2628423 2628424

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	< 0.5			3	5	6
DETSC 2003# Loss On Ignition	%	2.5			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.7			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	28.45	29.31	0.057	0.293	0.5	2	25
DETSC 2306 Barium as Ba	116.5	120.2	0.23	1.2	20	100	300
DETSC 2306 Cadmium as Cd	0.164	0.1822	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	91.22	91.89	0.18	0.92	0.5	10	70
DETSC 2306 Copper as Cu	45.06	46.16	0.09	0.461	2	50	100
DETSC 2306 Mercury as Hg	0.045	0.043	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	3	3.14	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	122.8	124.9	0.25	1.25	0.4	10	40
DETSC 2306 Lead as Pb	14.42	14.91	0.03	0.149	0.5	10	50
DETSC 2306 Antimony as Sb	1.424	1.468	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.858	1.945	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	84.17	83.23	0.168	0.833	4	50	200
DETSC 2055 Chloride as Cl	1400	1100	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	120	130	0.24	1.3	10	150	500
DETSC 2055 Sulphate as SO4	2800	2800	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	26000	26000	52	260	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	18000	19000	36	189.6	500	800	1000

Additional Information		
DETSC 2008 pH	6.8	6.8
DETSC 2009 Conductivity uS/cm	36.9	36.9
* Temperature*	16.0	16.0

Mass of Sample Kg	0.198
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.328
Volume of Eluate VE1	0.07

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.625

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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 Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id TP01 2.00

Sample Numbers 2628412 2628425 2628426

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	< 0.5			3	5	6
DETSC 2003# Loss On Ignition	%	2.3			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	8.2			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	10.47	10.39	0.021	0.104	0.5	2	25
DETSC 2306 Barium as Ba	59.38	60.36	0.12	0.6	20	100	300
DETSC 2306 Cadmium as Cd	0.0598	0.0671	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	32.68	32.1	0.07	0.32	0.5	10	70
DETSC 2306 Copper as Cu	16.81	16.57	0.034	0.166	2	50	100
DETSC 2306 Mercury as Hg	0.0219	0.0307	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.10	< 1.10	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	46.08	45.47	0.09	0.45	0.4	10	40
DETSC 2306 Lead as Pb	9.234	9.388	0.02	0.094	0.5	10	50
DETSC 2306 Antimony as Sb	0.5715	0.5849	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.7932	0.7964	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	58.24	55.63	0.116	0.557	4	50	200
DETSC 2055 Chloride as Cl	1100	680	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2500	2500	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	25000	26000	50	259.5	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	7100	6900	14.2	69.1	500	800	1000

Additional Information		
DETSC 2008 pH	6.8	6.7
DETSC 2009 Conductivity uS/cm	35.4	36.4
* Temperature*	16.0	16.0

Mass of Sample Kg	0.192
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.333
Volume of Eluate VE1	0.08

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.62

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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 Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id TP02 0.90

Sample Numbers 2628413 2628427 2628428

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.6			3	5	6
DETSC 2003# Loss On Ignition	%	2.6			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.9			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	23.67	25.3	0.047	0.252	0.5	2	25
DETSC 2306 Barium as Ba	130.3	130.8	0.26	1.31	20	100	300
DETSC 2306 Cadmium as Cd	0.1481	0.1762	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	72.93	76.51	0.15	0.76	0.5	10	70
DETSC 2306 Copper as Cu	35.38	36.86	0.071	0.368	2	50	100
DETSC 2306 Mercury as Hg	0.0447	0.0399	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.28	2.29	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	78.22	81.64	0.16	0.82	0.4	10	40
DETSC 2306 Lead as Pb	16.52	16.42	0.03	0.164	0.5	10	50
DETSC 2306 Antimony as Sb	1.2	1.206	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.787	1.885	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	73.95	75	0.148	0.75	4	50	200
DETSC 2055 Chloride as Cl	1400	1300	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	130	< 0.02	1.25	10	150	500
DETSC 2055 Sulphate as SO4	2600	2900	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	26000	26000	52	260	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	16000	15000	32	150.4	500	800	1000

Additional Information		
DETSC 2008 pH	7.7	7.5
DETSC 2009 Conductivity uS/cm	37.5	36.8
* Temperature*	17.0	17.0

Mass of Sample Kg	0.198
Mass of dry Sample Kg	0.175

Stage 1	
Volume of Leachant L2	0.327
Volume of Eluate VE1	0.07

Stage 2	
Volume of Leachant L8	1.4
Volume of Eluate VE2	0.615

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions.
 Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id TP03 1.00

Sample Numbers 2628414 2628429 2628430

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	< 0.5			3	5	6
DETSC 2003# Loss On Ignition	%	2.2			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.7			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	21.77	21.25	0.044	0.213	0.5	2	25
DETSC 2306 Barium as Ba	126	116.9	0.25	1.17	20	100	300
DETSC 2306 Cadmium as Cd	0.109	0.1018	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	77.75	73.89	0.16	0.74	0.5	10	70
DETSC 2306 Copper as Cu	30.91	30.12	0.062	0.302	2	50	100
DETSC 2306 Mercury as Hg	0.0721	0.0652	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.03	1.91	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	69.26	67.36	0.14	0.67	0.4	10	40
DETSC 2306 Lead as Pb	20.08	19.38	0.04	0.194	0.5	10	50
DETSC 2306 Antimony as Sb	0.9461	0.855	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.502	1.446	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	75.25	72.47	0.151	0.726	4	50	200
DETSC 2055 Chloride as Cl	1100	1000	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2700	3000	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	21000	21000	42	210	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	11000	11000	22	110	500	800	1000

Additional Information		
DETSC 2008 pH	7.3	7.1
DETSC 2009 Conductivity uS/cm	29.9	29.4
* Temperature*	17.0	17.0

Mass of Sample Kg	0.197
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.328
Volume of Eluate VE1	0.075

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.615

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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 Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id TP03 2.20

Sample Numbers 2628415 2628431 2628432

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	< 0.5			3	5	6
DETSC 2003# Loss On Ignition	%	2.5			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.4			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	7.477	7.385	0.015	0.074	0.5	2	25
DETSC 2306 Barium as Ba	58.57	55.39	0.12	0.56	20	100	300
DETSC 2306 Cadmium as Cd	0.0344	0.0322	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	25.05	24.08	0.05	0.24	0.5	10	70
DETSC 2306 Copper as Cu	14.77	14.53	0.03	0.145	2	50	100
DETSC 2306 Mercury as Hg	0.0164	0.0242	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.10	< 1.10	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	37.04	37.01	0.07	0.37	0.4	10	40
DETSC 2306 Lead as Pb	6.105	6.08	0.01	0.061	0.5	10	50
DETSC 2306 Antimony as Sb	0.4065	0.3927	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.4531	0.4472	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	50.52	50.53	0.101	0.505	4	50	200
DETSC 2055 Chloride as Cl	900	730	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	3300	3400	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	39000	92000	78	895.8	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5600	5200	11.2	52.2	500	800	1000

Additional Information		
DETSC 2008 pH	7.8	7.3
DETSC 2009 Conductivity uS/cm	56.1	132.0
* Temperature*	17.0	16.0

Mass of Sample Kg	0.190
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.335
Volume of Eluate VE1	0.08

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.615

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id SA307 0.80

Sample Numbers 2628416 2628433 2628434

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference		Units	Result		Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon		%	0.7		3	5	6
DETSC 2003# Loss On Ignition		%	2.7		n/a	n/a	10
DETSC 3321# BTEX		mg/kg	< 0.04		6	n/a	n/a
DETSC 3401# PCBs (7 congeners)		mg/kg	< 0.01		1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)		mg/kg	< 10		500	n/a	n/a
DETSC 3301 PAHs		mg/kg	< 1.6		100	n/a	n/a
DETSC 2008# pH		pH Units	5.9		n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)		mol/kg	< 1.0		n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)		mol/kg	< 1.0		n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference		Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate	
		2:1	8:1	LS2	LS10	Inert Waste	SNRHW
DETSC 2306 Arsenic as As		21.34	21.12	0.043	0.211	0.5	2
DETSC 2306 Barium as Ba		96.69	94.72	0.19	0.95	20	100
DETSC 2306 Cadmium as Cd		0.1213	0.1189	< 0.004	< 0.02	0.04	1
DETSC 2306 Chromium as Cr		66.55	65.34	0.13	0.65	0.5	10
DETSC 2306 Copper as Cu		31.92	31.39	0.064	0.314	2	50
DETSC 2306 Mercury as Hg		0.0312	0.0345	< 0.0004	< 0.002	0.01	0.2
DETSC 2306 Molybdenum as Mo		1.65	1.55	< 0.02	< 0.1	0.5	10
DETSC 2306 Nickel as Ni		70.75	69.75	0.14	0.7	0.4	10
DETSC 2306 Lead as Pb		15.28	15.61	0.03	0.156	0.5	10
DETSC 2306 Antimony as Sb		1.182	1.086	< 0.01	< 0.05	0.06	0.7
DETSC 2306 Selenium as Se		1.441	1.372	< 0.006	< 0.03	0.1	0.5
DETSC 2306 Zinc as Zn		60.09	61.11	0.12	0.611	4	50
DETSC 2055 Chloride as Cl		1500	490	< 20	< 100	800	15,000
DETSC 2055* Fluoride as F		< 100	< 100	< 0.02	< 0.1	10	150
DETSC 2055 Sulphate as SO4		3200	3400	< 20	< 100	1000	20,000
DETSC 2009* Total Dissolved Solids		27000	26000	54	260.4	4000	60,000
DETSC 2130 Phenol Index		< 100	< 100	< 0.2	< 1	1	n/a
DETSC 2085 Dissolved Organic Carbon		11000	11000	22	110	500	800

Additional Information		
DETSC 2008 pH	7.1	7.0
DETSC 2009 Conductivity uS/cm	38.2	37.1
* Temperature*	16.0	16.0

Mass of Sample Kg	0.200
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.325
Volume of Eluate VE1	0.07

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.625

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id SA303 0.50

Sample Numbers 2628419 2628435 2628436

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	< 0.5			3	5	6
DETSC 2003# Loss On Ignition	%	2.6			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.4			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	26.06	26.5	0.052	0.265	0.5	2	25
DETSC 2306 Barium as Ba	132.9	135.4	0.27	1.35	20	100	300
DETSC 2306 Cadmium as Cd	0.1788	0.1993	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	91.22	89.65	0.18	0.9	0.5	10	70
DETSC 2306 Copper as Cu	35.51	35.63	0.071	0.356	2	50	100
DETSC 2306 Mercury as Hg	0.028	0.0286	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.06	1.96	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	74.19	73.93	0.15	0.74	0.4	10	40
DETSC 2306 Lead as Pb	13.57	14.27	0.03	0.142	0.5	10	50
DETSC 2306 Antimony as Sb	1.081	1.044	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.944	1.937	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	65.97	71.67	0.132	0.714	4	50	200
DETSC 2055 Chloride as Cl	1300	1000	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	3500	3600	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	28000	28000	56	280	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	8500	13000	17	127.9	500	800	1000

Additional Information		
DETSC 2008 pH	7.0	7.0
DETSC 2009 Conductivity uS/cm	40.1	39.4
* Temperature*	17.0	17.0

Mass of Sample Kg	0.199
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.326
Volume of Eluate VE1	0.08

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.63

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-01258

Client Ref TF-25-430-CA

Contract Title Heronbridge School Bridge

Sample Id SA308 2.00

Sample Numbers 2628420 2628437 2628438

Date Analysed 04/02/2026

Test Results On Waste					WAC Limit Values		
Determinand and Method Reference	Units	Result			Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.8			3	5	6
DETSC 2003# Loss On Ignition	%	2.9			n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04			6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01			1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10			500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6			100	n/a	n/a
DETSC 2008# pH	pH Units	7.4			n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0			n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0			n/a	TBE	TBE

Test Results On Leachate					WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached mg/kg		Limit values for LS10 Leachate		
	2:1	8:1	LS2	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	< 0.1600	< 0.1600	< 0.002	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	1.941	2.039	< 0.02	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.0300	< 0.0300	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.4144	0.3112	< 0.02	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	0.4584	0.506	< 0.004	< 0.02	2	50	100
DETSC 2306 Mercury as Hg	< 0.0100	< 0.0100	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.10	1.48	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.5000	< 0.5000	< 0.02	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.0942	0.1377	< 0.01	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.1700	< 0.1700	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.2500	0.5618	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.30	1.64	< 0.002	0.016	4	50	200
DETSC 2055 Chloride as Cl	1100	910	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	3700	3500	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	26000	26000	52	260	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6900	6800	13.8	68	500	800	1000

Additional Information		
DETSC 2008 pH	6.9	6.7
DETSC 2009 Conductivity uS/cm	37.1	37.5
* Temperature*	17.0	17.0

Mass of Sample Kg	0.209
Mass of dry Sample Kg	0.175

Stage 1

Volume of Leachant L2	0.316
Volume of Eluate VE1	0.075

Stage 2

Volume of Leachant L8	1.4
Volume of Eluate VE2	0.62

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

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 Values are correct at time of issue.

Summary of Asbestos Analysis

Soil Samples

Our Ref ~ 26-01258

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronbridge School Bridge

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2628410	SA312 0.60	SOIL	NAD	none	Jason Barsby
2628411	TP01 1.00	SOIL	NAD	none	Jason Barsby
2628412	TP01 2.00	SOIL	NAD	none	Jason Barsby
2628413	TP02 0.90	SOIL	NAD	none	Jason Barsby
2628414	TP03 1.00	SOIL	NAD	none	Jason Barsby
2628415	TP03 2.20	SOIL	NAD	none	Jason Barsby
2628416	SA307 0.80	SOIL	NAD	none	Jason Barsby
2628418	SA301 0.10	SOIL	NAD	none	Jason Barsby
2628419	SA303 0.50	SOIL	NAD	none	Jason Barsby
2628420	SA308 2.00	SOIL	NAD	none	Jason Barsby

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 26-01258

Client Ref ~ TF-25-430-CA

Contract ~ Heronbridge School Bridge

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2628410	SA312 0.60 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628411	TP01 1.00 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2		
2628412	TP01 2.00 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2		
2628413	TP02 0.90 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628414	TP03 1.00 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628415	TP03 2.20 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628416	SA307 0.80 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628417	SA312 1.50 SOIL	19/01/26	PT 500ml		
2628418	SA301 0.10 SOIL	19/01/26	GJ 250ml, GJ 60ml, PT 500ml		
2628419	SA303 0.50 SOIL	19/01/26	GJ 250ml, GJ 60ml, PT 500ml		
2628420	SA308 2.00 SOIL	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628421	SA312 0.60 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628422	SA312 0.60 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628423	TP01 1.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2		
2628424	TP01 1.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2		
2628425	TP01 2.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2		
2628426	TP01 2.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2		
2628427	TP02 0.90 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628428	TP02 0.90 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628429	TP03 1.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628430	TP03 1.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628431	TP03 2.20 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628432	TP03 2.20 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628433	SA307 0.80 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628434	SA307 0.80 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628435	SA303 0.50 LEACHATE	19/01/26	GJ 250ml, GJ 60ml, PT 500ml		
2628436	SA303 0.50 LEACHATE	19/01/26	GJ 250ml, GJ 60ml, PT 500ml		

Information in Support of the Analytical Results

Our Ref 26-01258
 Client Ref ~ TF-25-430-CA
 Contract ~ Heronbridge School Bridge

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2628437	SA308 2.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		
2628438	SA308 2.00 LEACHATE	19/01/26	GJ 250ml x2, GJ 60ml, PT 1L		

Lab No	Sample ID	Comments
2628421	SA312 0.60 LEACH	Insufficient sample 1678g (<2kg) Sample received
2628422	SA312 0.60 LEACH	Insufficient sample 1678g (<2kg) Sample received
2628423	TP01 1.00 LEACH	Insufficient sample 1757g (<2kg) Sample received
2628424	TP01 1.00 LEACH	Insufficient sample 1757g (<2kg) Sample received
2628425	TP01 2.00 LEACH	Insufficient sample 1737g (<2kg) Sample received
2628426	TP01 2.00 LEACH	Insufficient sample 1737g (<2kg) Sample received
2628427	TP02 0.90 LEACH	Insufficient sample 1735g (<2kg) Sample received
2628428	TP02 0.90 LEACH	Insufficient sample 1735g (<2kg) Sample received
2628429	TP03 1.00 LEACH	Insufficient sample 1700g (<2kg) Sample received
2628430	TP03 1.00 LEACH	Insufficient sample 1700g (<2kg) Sample received
2628431	TP03 2.20 LEACH	Insufficient sample 1586g (<2kg) Sample received
2628432	TP03 2.20 LEACH	Insufficient sample 1586g (<2kg) Sample received
2628433	SA307 0.80 LEACH	Insufficient sample 1277g (<2kg) Sample received
2628434	SA307 0.80 LEACH	Insufficient sample 1277g (<2kg) Sample received
2628435	SA303 0.50 LEACH	Insufficient sample 910.8g (<2kg) Sample received
2628436	SA303 0.50 LEACH	Insufficient sample 910.8g (<2kg) Sample received
2628437	SA308 2.00 LEACH	Insufficient sample 1689g (<2kg) Sample received
2628438	SA308 2.00 LEACH	Insufficient sample 1689g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C35-C40	EH_CU_1D_AL
Aliphatic C5-C40	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C35-C40	EH_CU_1D_AR
Aromatic C5-C40	EH_CU+HS_1D_AR
TPH Ali/Aro C5-C40	EH_CU+HS_1D_Total
Mineral Oil (C10-C40) + Clean Up	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Certificate of Analysis

Certificate Number 26-02344

Issued: 19-Feb-26

Client Terra Firma Group
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Our Reference 26-02344

Client Reference ~ 25-430

Order No ~ 25-430

Contract Title ~ Heronsbridge

Description 5 Soil samples.

Date Received 02-Feb-26

Date Started 02-Feb-26

Date Completed 19-Feb-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By



Reyhan Irfan
Operations Manager



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Sample Deviations present. See Deviation Table Section for details.

Summary of Chemical Analysis

Soil Samples

Our Ref ~ 26-02344

Client Ref ~ 25-430

Contract Title ~ Heronsbridge

Lab No	2634928	2634929	2634930	2634931	2634932
Sample ID ~	WS409	WS405	WS414	WS406	WS415
Depth ~	0.30	1.00	0.40	0.30	0.80
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	12/01/2026	12/01/2026	12/01/2026	12/01/2026	12/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Preparation								
Stones Removed	DETSC 1003*	0	%	0.0		0.0	0.0	0.0
Moisture Content	DETSC 1004	0.1	%	23		18	3.3	4.5
Metals								
Arsenic	DETSC 2301#	0.2	mg/kg	9.6		10	1.2	4.6
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.5		0.4	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2		0.2	0.4	0.7
Chromium	DETSC 2301#	0.15	mg/kg	17		14	5.7	3.9
Chromium III	DETSC 2301*	0.15	mg/kg	17		14	5.7	3.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0		< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	16		13	2.8	3.7
Lead	DETSC 2301#	0.3	mg/kg	28		30	3.3	20
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l		< 10			
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05		< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	14		13	1.5	4.4
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5		< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	65		60	10	68
Inorganics								
pH	DETSC 2008#		pH	7.3	7.5	7.5	8.9	8.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.1		< 0.1	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	4.7		3.2	0.4	0.3
Ammonia Aqueous Extract as N	DETSC 2119*	10	mg/l		24			
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l		4.8			
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l		2.1			
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l		16			
Sulphur as S, Total	DETSC 2320	0.01	%		< 0.01			
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.09	< 0.01	0.05	0.02	0.09
Petroleum Hydrocarbons								
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01	< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50		< 1.50	< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20		< 1.20	< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50		< 1.50	< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40		< 3.40	< 3.40	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40		< 3.40	< 3.40	< 3.40
Aliphatic C5-C40: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00		< 10.00	< 10.00	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01	< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90		< 0.90	< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50		< 0.50	< 0.50	< 0.50

Summary of Chemical Analysis

Soil Samples

Our Ref 26-02344

Client Ref ~ 25-430

Contract Title ~ Heronsbridge

Lab No	2634928	2634929	2634930	2634931	2634932
Sample ID ~	WS409	WS405	WS414	WS406	WS415
Depth ~	0.30	1.00	0.40	0.30	0.80
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	12/01/2026	12/01/2026	12/01/2026	12/01/2026	12/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	0.91		0.86	< 0.60	0.68
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	2.75		< 1.40	< 1.40	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40		< 1.40	< 1.40	< 1.40
Aromatic C5-C40: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00		< 10.00	< 10.00	< 10.00
TPH Ali/Aro C5-C40: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00		< 10.00	< 10.00	< 10.00
PAHs								
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10		< 0.10	< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6		< 1.6	< 1.6	< 1.6
Phenols								
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	1.0		0.6	< 0.3	< 0.3

Summary of Asbestos Analysis

Soil Samples

Our Ref 26-02344

Client Ref ~ 25-430

Contract Title ~ Heronsbridge

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2634928	WS409 0.30	SOIL	NAD	none	Lee Kerridge
2634930	WS414 0.40	SOIL	NAD	none	Lee Kerridge
2634931	WS406 0.30	SOIL	NAD	none	Lee Kerridge
2634932	WS415 0.80	SOIL	NAD	none	Lee Kerridge

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected.

Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 26-02344
 Client Ref ~ 25-430
 Contract ~ Heronsbridge

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests	Headspace in container for tests
2634928	WS409 0.30 SOIL	12/01/26	GJ 250ml, GJ 60ml, PT 500ml	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)		
2634929	WS405 1.00 SOIL	12/01/26	GJ 250ml, GJ 60ml, PT 500ml	Ammonia Aqueous Extract (3 days), Total Sulphur ICP (7 days), pH + Conductivity (7 days)		
2634930	WS414 0.40 SOIL	12/01/26	GJ 250ml, GJ 60ml, PT 500ml	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)		
2634931	WS406 0.30 SOIL	12/01/26	GJ 250ml ((Headspace)), GJ 60ml ((Headspace)), PT 500ml ((Headspace))	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)		BTEX/C5-10, HS
2634932	WS415 0.80 SOIL	12/01/26	GJ 250ml ((Headspace)), GJ 60ml ((Headspace)), PT 500ml ((Headspace))	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)		BTEX/C5-10, HS

Key: G-Glass P-Plastic J-Jar T-Tub

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Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic C5-C40	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic C5-C40	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C40	EH_2D+HS_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Certificate of Analysis

Certificate Number 26-02346

Issued: 18-Feb-26

Client Terra Firma Group
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Our Reference 26-02346

Client Reference ~ TF-25-430-CA

Order No ~ TF-25-430-CA

Contract Title ~ Heronsbridge School, Bridge

Description 5 Soil samples, 2 Leachate prepared by DETS samples.

Date Received 02-Feb-26

Date Started 02-Feb-26

Date Completed 18-Feb-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "R Irfan".

Reyhan Irfan
Operations Manager



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Sample Deviations present. See Deviation Table Section for details.

Summary of Chemical Analysis

Soil Samples

Our Ref 26-02346

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronsbridge School, Bridge

Lab No	2634936	2634937	2634938	2634939	2634940
Sample ID ~	WS413	BH104	WS404	WS402	BH104
Depth ~	0.50	0.60	0.40	0.20	6.00
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	07/01/2026	07/01/2026	07/01/2026	07/01/2026	07/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Preparation								
Stones Removed	DETSC 1003*	0	%	0.0	0.0	0.0	0.0	
Moisture Content	DETSC 1004	0.1	%	9.9	9.8	17	16	
Metals								
Arsenic	DETSC 2301#	0.2	mg/kg	9.9	8.9	14	10	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.8	2.2	0.6	0.7	
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	< 0.1	0.3	0.2	
Chromium	DETSC 2301#	0.15	mg/kg	18	21	19	16	
Chromium III	DETSC 2301*	0.15	mg/kg	18	21	19	16	
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	
Copper	DETSC 2301#	0.2	mg/kg	14	15	18	18	
Lead	DETSC 2301#	0.3	mg/kg	22	25	39	31	
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l					< 10
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	0.06	< 0.05	
Nickel	DETSC 2301#	1	mg/kg	24	26	17	16	
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg	60	60	66	56	
Inorganics								
pH	DETSC 2008#		pH	8.1	8.2	8.0	7.6	8.1
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	
Organic matter	DETSC 2002#	0.1	%	0.9	0.4	3.0	2.2	
Ammonia Aqueous Extract as N	DETSC 2119*	10	mg/l					< 10
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l					16
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l					4.5
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l					14
Sulphur as S, Total	DETSC 2320	0.01	%					< 0.01
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.02	0.03	0.05	0.05	0.02
Petroleum Hydrocarbons								
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20	< 1.20	< 1.20	
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50	< 1.50	< 1.50	
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40	< 3.40	< 3.40	
Aliphatic C5-C40: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90	< 0.90	< 0.90	
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	

Summary of Chemical Analysis

Soil Samples

Our Ref 26-02346

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronsbridge School, Bridge

Lab No	2634936	2634937	2634938	2634939	2634940
Sample ID ~	WS413	BH104	WS404	WS402	BH104
Depth ~	0.50	0.60	0.40	0.20	6.00
Other ID ~					
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	07/01/2026	07/01/2026	07/01/2026	07/01/2026	07/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units					
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	< 0.60	< 0.60	2.08	< 0.60	
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	< 1.40	< 1.40	< 1.40	2.73	
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40	< 1.40	< 1.40	
Aromatic C5-C40: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	
TPH Ali/Aro C5-C40: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	< 10.00	< 10.00	< 10.00	< 10.00	
PAHs								
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	
Phenols								
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	

Summary of Asbestos Analysis

Soil Samples

Our Ref 26-02346

Client Ref ~ TF-25-430-CA

Contract Title ~ Heronsbridge School, Bridge

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2634936	WS413 0.50	SOIL	NAD	none	Lee Kerridge
2634937	BH104 0.60	SOIL	NAD	none	Lee Kerridge
2634938	WS404 0.40	SOIL	NAD	none	Lee Kerridge
2634939	WS402 0.20	SOIL	NAD	none	Lee Kerridge

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected.

Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-02346

Client Ref TF-25-430-CA

Contract Title Heronsbridge School, Bridge

Sample Id WS413 0.50

Sample Numbers 2634936 2634941

Date Analysed 18/02/2026

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.0	3	5	6
DETSC 2003# Loss On Ignition	%	3.5	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.1	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	4.467	0.04	0.5	2	25
DETSC 2306 Barium as Ba	23.6	0.2	20	100	300
DETSC 2306 Cadmium as Cd	0.0458	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	11.52	0.1	0.5	10	70
DETSC 2306 Copper as Cu	9.71	0.1	2	50	100
DETSC 2306 Mercury as Hg	0.0255	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.10	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	12.37	0.1	0.4	10	40
DETSC 2306 Lead as Pb	6.077	0.06	0.5	10	50
DETSC 2306 Antimony as Sb	0.4214	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.7695	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	28.04	0.28	4	50	200
DETSC 2055 Chloride as Cl	1100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	440	4.4	10	150	500
DETSC 2055 Sulphate as SO4	6800	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	22000	220	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	14000	140	500	800	1000

Additional Information	
DETSC 2008 pH	8.1
DETSC 2009 Conductivity uS/cm	31.2
* Temperature*	16.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.090

Stage 1	
Volume of Leachant L2	0.89
Volume of Eluate VE1	0.82

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions.
 Values are correct at time of issue.

WASTE ACCEPTANCE CRITERIA TESTING

v20.25.02.03

Our Ref 26-02346

Client Ref TF-25-430-CA

Contract Title Heronsbridge School, Bridge

Sample Id BH104 0.60

Sample Numbers 2634937 2634942

Date Analysed 18/02/2026

Test Results On Waste			WAC Limit Values		
Determinand and Method Reference	Units	Result	Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.9	3	5	6
DETSC 2003# Loss On Ignition	%	7.7	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate			WAC Limit Values		
Determinand and Method Reference	Conc in Eluate ug/l	Amount Leached mg/kg	Limit values for LS10 Leachate		
	10:1	LS10	Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	2.702	0.03	0.5	2	25
DETSC 2306 Barium as Ba	9.07	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.0300	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	6.343	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.719	0.05	2	50	100
DETSC 2306 Mercury as Hg	< 0.0100	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.10	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	6.822	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	3.825	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.1832	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.3077	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	16.11	0.16	4	50	200
DETSC 2055 Chloride as Cl	2000	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	200	2	10	150	500
DETSC 2055 Sulphate as SO4	6200	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	26000	260	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6500	65	500	800	1000

Additional Information	
DETSC 2008 pH	7.7
DETSC 2009 Conductivity uS/cm	37.7
* Temperature*	16.0

Mass of Sample Kg	0.100
Mass of dry Sample Kg	0.090

Stage 1	
Volume of Leachant L2	0.89
Volume of Eluate VE1	0.82

TBE - To Be Evaluated
 SNRHW - Stable Non-Reactive
 Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions.
 Values are correct at time of issue.

Information in Support of the Analytical Results

Our Ref 26-02346

Client Ref ~ TF-25-430-CA

Contract ~ Heronsbridge School, Bridge

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests	Headspace in container for tests
2634936	WS413 0.50 SOIL	07/01/26	GJ 250ml ((Headspace)) x2, GJ 60ml ((Headspace)), PT 500ml ((Headspace)) x2	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days), EPH/TPH Cleanup (14 days)		BTEX/C5-10, HS
2634937	BH104 0.60 SOIL	07/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days), EPH/TPH Cleanup (14 days)		
2634938	WS404 0.40 SOIL	07/01/26	GJ 250ml ((Headspace)), GJ 60ml ((Headspace)), PT 500ml ((Headspace))	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)		BTEX/C5-10, HS
2634939	WS402 0.20 SOIL	07/01/26	GJ 250ml ((Headspace)), GJ 60ml ((Headspace)), PT 500ml ((Headspace))	BTEX / C5-C10 (14 days), EPH/Aliphatic/Aromatic (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)		BTEX/C5-10, HS
2634940	BH104 6.00 SOIL	07/01/26	PT 500ml	Ammonia Aqueous Extract (3 days), Total Sulphur ICP (7 days), pH + Conductivity (7 days)		
2634941	WS413 0.50 LEACHATE	07/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2	Prep (14 days), pH/Cond (1 days), Cyanide/Mono pHoh (14 days)		
2634942	BH104 0.60 LEACHATE	07/01/26	GJ 250ml x2, GJ 60ml, PT 500ml x2	Prep (14 days), pH/Cond (1 days), Cyanide/Mono pHoh (14 days)		

Lab No	Sample ID	Comments
2634941	WS413 0.50 LEACHATE	Insufficient sample 1627g (<2kg) Sample received
2634942	BH104 0.60 LEACHATE	Insufficient sample 1640g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic C5-C40	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic C5-C40	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C40	EH_2D+HS_1D_Total
Mineral Oil (C10-C40) + Clean Up	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

ANNEX E
Soakaway Test
Results



DRAFT



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Trial Pit Log

Trial Pit No:

SA301

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

14/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.80

Depth

1.70

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
				1.10			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
				1.50			Loose orangish brown very clayey slightly sandy GRAVEL with medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone and limestone. Cobbles are subrounded of limestone.	
				1.70			Grey clayey slightly sandy gravelly COBBLES and BOULDERS of anuglar to subangular limestone.	
							End of Pit at 1.700m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA302

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

14/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.80

Depth

1.70

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
							Soft becoming firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
				1.50				
				1.70			Loose orangish brown very clayey slightly sandy GRAVEL. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	
							End of Pit at 1.700m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Geotechnical & Geoenvironmental Specialists

Trial Pit Log

Trial Pit No:

SA303

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

14/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.60

Depth

1.00

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
				0.80			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
				1.00			Loose to medium dense orangish brown very clayey slightly sandy GRAVEL. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	1
							End of Pit at 1.000m	
								2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA304

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

14/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.50

Depth

1.50

0.60

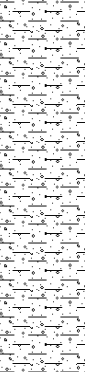
Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.25			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.
				1.50			Firm orangish brown slightly sandy slightly gravelly CLAY with occasional cobble. Gravel is subangular to rounded fine to coarse of sandstone and limestone. Cobbles are subangular of limestone and sandstone.
							End of Pit at 1.500m

Stability: Stable

Remarks:

DRAFT

Trial Pit Log

Trial Pit No:

SA305

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
14/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.40

Depth
1.60

0.60

Scale:
1:25

Logged:
JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
							Firm orangish brown slightly sandy slightly gravelly CLAY with occasional cobble. Gravel is subangular to rounded fine to coarse of sandstone and limestone. Cobbles are subangular of limestone and sandstone.	1
				1.60			End of Pit at 1.600m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA306

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

15/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.40

Depth

1.60

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			Soft dark brown sandy CLAY.
				0.40			Loose light brown very clayey gravelly SAND. Gravel is subangular to rounded fine to coarse of sandstone and limestone.
							Firm orangish brown slightly sandy slightly gravelly CLAY with occasional cobble. Gravel is subangular to rounded fine to coarse of sandstone and limestone. Cobbles are subangular of limestone and sandstone.
				1.60			End of Pit at 1.600m

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA307

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

15/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.80

Depth

2.60

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
				0.90			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
							Loose orangish brown very clayey slightly sandy GRAVEL. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	1
							<i>Strata is gravelly.</i>	
				1.80			Firm orangish brown slightly sandy gravelly CLAY with occasional cobble. Gravel is subangular to rounded fine to coarse of sandstone and limestone. Cobbles are subangular of limestone and sandstone.	2
				2.60			End of Pit at 2.600m	3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA308

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

15/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.70

Depth

2.80

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			Soft dark brown sandy CLAY.
							Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.
				1.20			Medium dense yellowish orange fine SAND.
				1.50			Firm orangish brown slightly sandy slightly gravelly CLAY with occasional cobble. Gravel is subangular to rounded fine to coarse of sandstone and limestone. Cobbles are subangular of limestone and sandstone.
				2.80			End of Pit at 2.800m

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA309

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

15/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.60

Depth

1.40

0.60

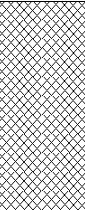
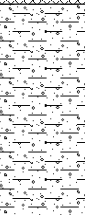
Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.70			POSSIBLE MADE GROUND: Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse of sandstone and limestone.	
				1.40			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
							End of Pit at 1.400m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT

Trial Pit Log

Trial Pit No:

SA310

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
15/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.30

Depth

0.60

1.50

Scale:

1:25

Logged:
JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
				0.70			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
				1.50			Firm orangish brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
							End of Pit at 1.500m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA311

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
15/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.20

Depth

0.60

1.40

Scale:

1:25

Logged:
JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.24			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
				0.80			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
				1.40			Loose greyish brown clayey sandy GRAVEL. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
							<i>Strata is very clayey.</i>	
							End of Pit at 1.400m	
								2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA312

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

2.00

Depth

2.50

0.60

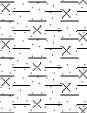
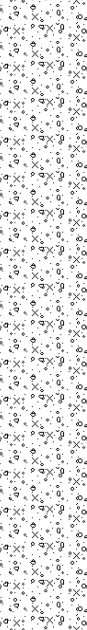
Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.40			Soft dark brown slightly gravelly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
							Medium dense orangih brown very clayey sandy GRAVEL with low cobble content. Gravel is subangular to rounded fine to coarse of sandstone and limestone. Cobbles are subrounded of sandstone and limestone.	1
				2.50			End of Pit at 2.500m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA313

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.60

Depth

0.60

1.40

Scale:

1:25

Logged:
JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			Soft dark brown gravelly slightly sandy CLAY. Gravel is subrounded fine to medium of sandstone.	
							Firm orangish brown slightly sandy CLAY.	
				0.75			Firm reddish brown slightly sandy silty CLAY.	1
				1.40			End of Pit at 1.400m	2
								3
								4
								5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA314

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -
Level:

Date:
16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.35

Depth

0.60

1.45

Scale:

1:25

Logged:
JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.25			Soft dark brown sandy CLAY.
				1.45			Firm orangish brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.
							End of Pit at 1.450m

1

2

3

4

5

Stability: Stable

Remarks:

DRAFT



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Trial Pit Log

Trial Pit No:

SA315

Sheet 1 of 1

Project Name: Heronsbridge School, Bridgend

Project No:
TF-25-430-CA

Co-ords: -

Level:

Date:

16/01/2026

Location: Ewenny Road, Bridgend

Dimensions:

1.50

Depth

1.80

0.60

Scale:

1:25

Logged:

JA

Client: Kier Construction Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			Soft dark brown sandy CLAY.	
							Soft becoming firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
				0.90			Medium dense light brown slightly clayey sandy GRAVEL. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	1
				1.10			Firm reddish brown silty CLAY.	
				1.50			Firm orangish brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone and limestone.	
				1.80			End of Pit at 1.800m	2
								3
								4
								5

Stability: Stable

Remarks:

SOAKAWAY TEST



Site Name: Herronsbridge School
Project Number: TF-25-430-CA
Date: 14/01/2026
Engineer: Jamie Alderman

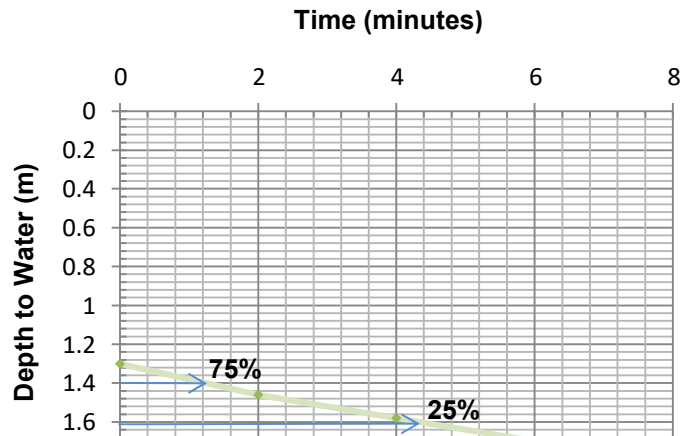
Trial Pit: SA301

TEST 1

Length 1.80 m
Bredth 0.60 m
Depth 1.70 m
Fill Level 1.30 m

V_{p75-25} 0.216 m³
 a_{p50} 2.04 m²
 t_{p75-25} 3 minutes

Soil Infiltration Rate, f 5.88E-04 ms⁻¹

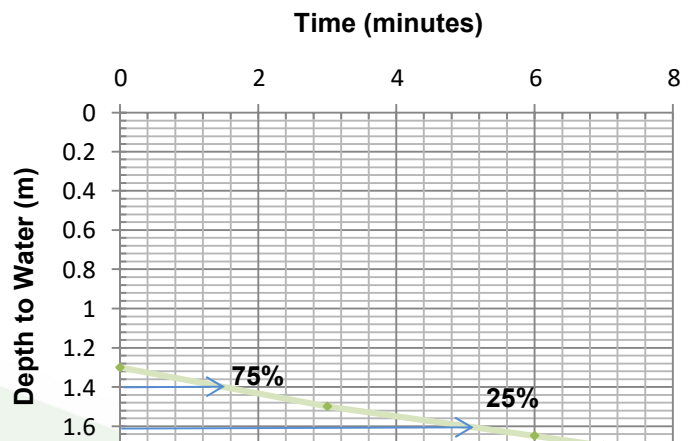


TEST 2

Length 1.80 m
Bredth 0.60 m
Depth 1.70 m
Fill Level 1.30 m

V_{p75-25} 0.216 m³
 a_{p50} 2.04 m²
 t_{p75-25} 3.6 minutes

Soil Infiltration Rate, f 4.90E-04 ms⁻¹

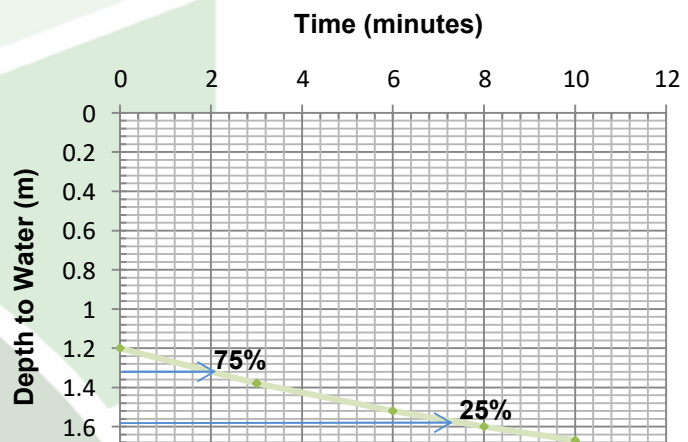


TEST 3

Length 1.80 m
Bredth 0.60 m
Depth 1.70 m
Fill Level 1.20 m

V_{p75-25} 0.27 m³
 a_{p50} 2.28 m²
 t_{p75-25} 5.2 minutes

Soil Infiltration Rate, f 3.80E-04 ms⁻¹



REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 14/01/2026
Engineer: Jamie Alderman

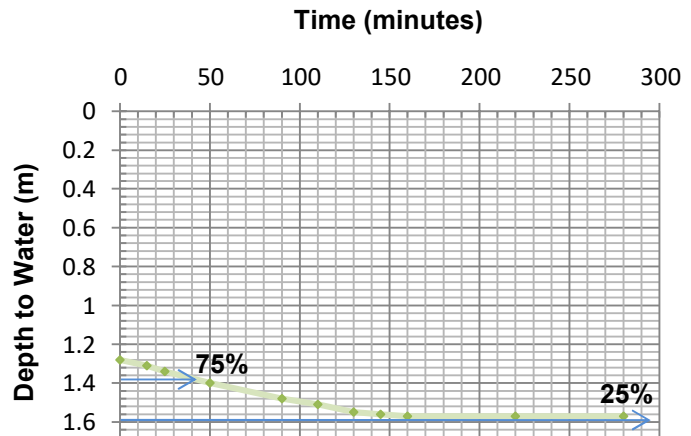
Trial Pit: SA302

TEST 1

Length 1.80 m
Bredth 0.60 m
Depth 1.70 m
Fill Level 1.28 m

V_{p75-25} 0.227 m³
 a_{p50} 2.088 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

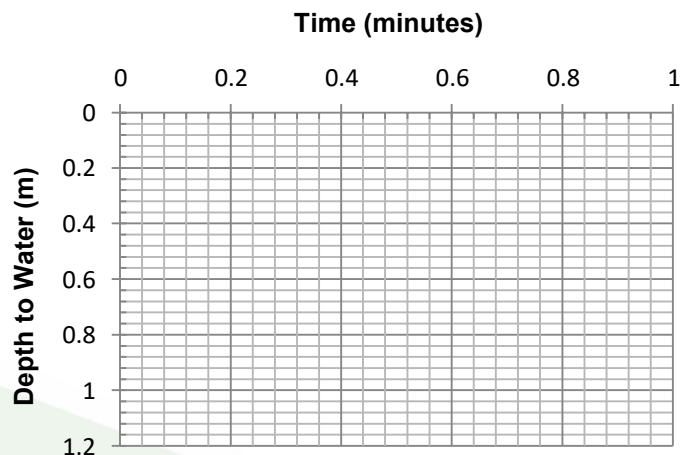


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

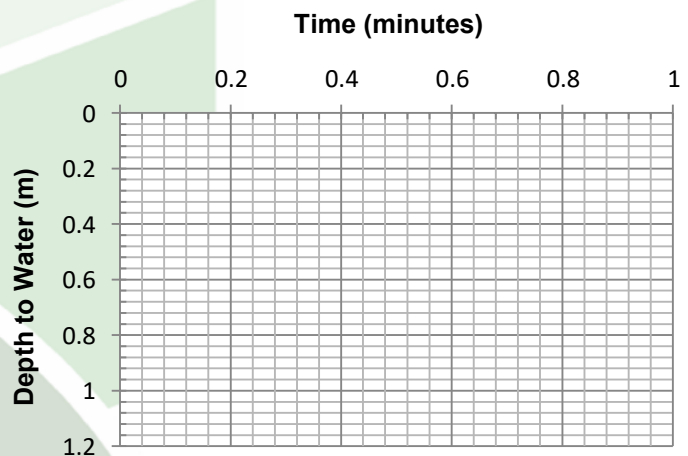


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 14/01/2026
Engineer: Jamie Alderman

Trial Pit: **SA303**

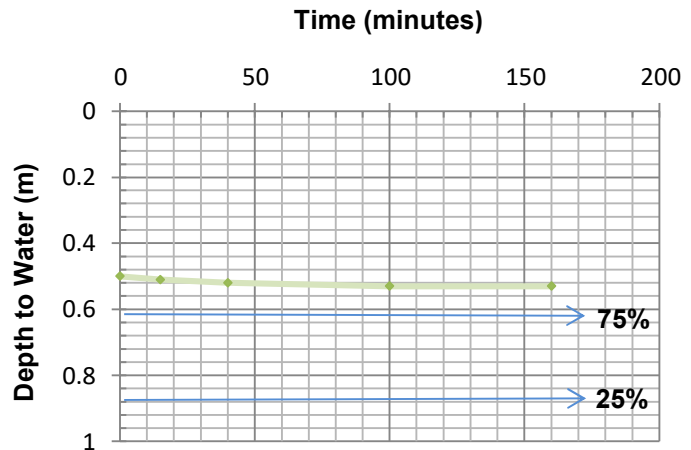
TEST 1

Length
Bredth
Depth
Fill Level

1.60 m
0.60 m
1.00 m
0.50 m

V_{p75-25} 0.24 m³
 a_{p50} 2.06 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate



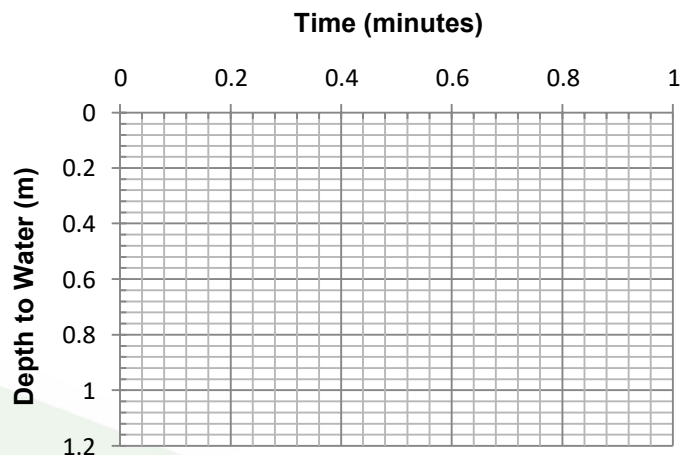
TEST 2

Length
Bredth
Depth
Fill Level

m
m
m
m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



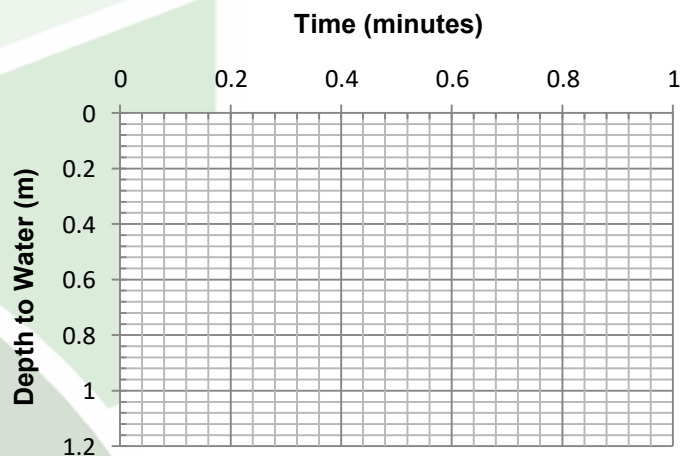
TEST 3

Length
Bredth
Depth
Fill Level

m
m
m
m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 14/01/2026
Engineer: Jamie Alderman

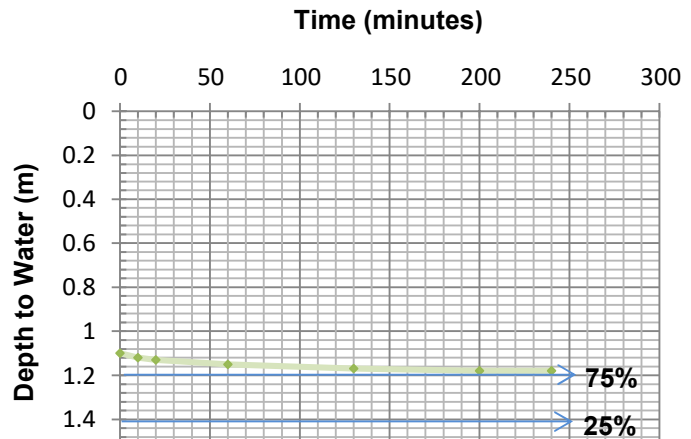
Trial Pit: **SA304**

TEST 1

Length 1.50 m
Bredth 0.60 m
Depth 1.50 m
Fill Level 1.10 m

V_{p75-25} 0.18 m³
 a_{p50} 1.74 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

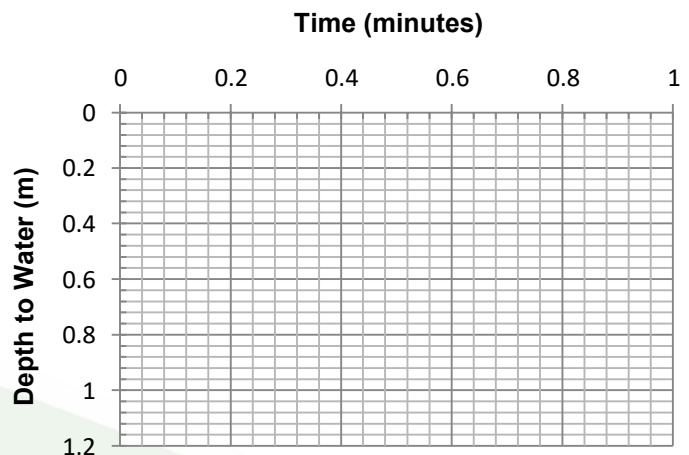


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

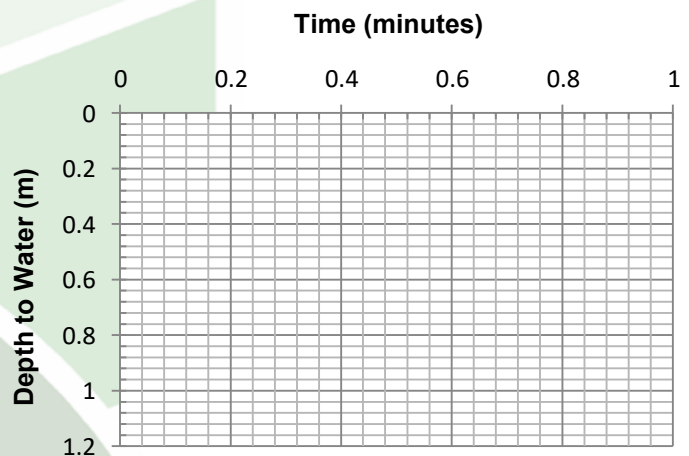


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

Trial Pit: TP

TEST 1		Time (minutes)	
Length	1.40 m		
Bredth	0.60 m		
Depth	1.60 m		
Fill Level	1.20 m		
V_{p75-25}	0.168 m ³		
a_{p50}	1.64 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
Too little water take to calculate infiltration rate			
TEST 2		Time (minutes)	
Length			
Bredth			
Depth			
Fill Level			
V_{p75-25}	0 m ³		
a_{p50}	0 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
TEST 3		Time (minutes)	
Length			
Bredth			
Depth			
Fill Level			
V_{p75-25}	0 m ³		
a_{p50}	0 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
REMARKS:			
Test carried out in genral accordance with BRE DIGEST 365 (2016)			

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

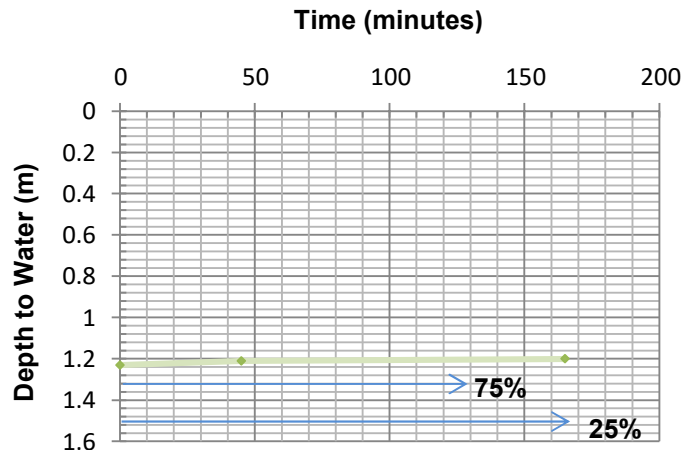
Trial Pit: **SA306**

TEST 1

Length 1.40 m
Bredth 0.60 m
Depth 1.60 m
Fill Level 1.23 m

V_{p75-25} 0.155 m³
 a_{p50} 1.58 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

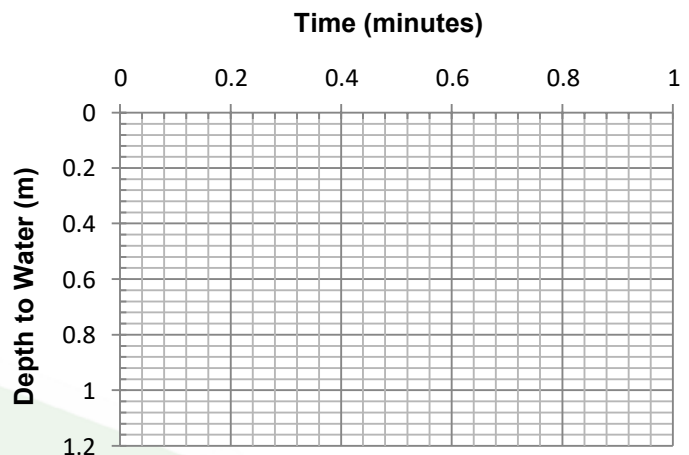


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

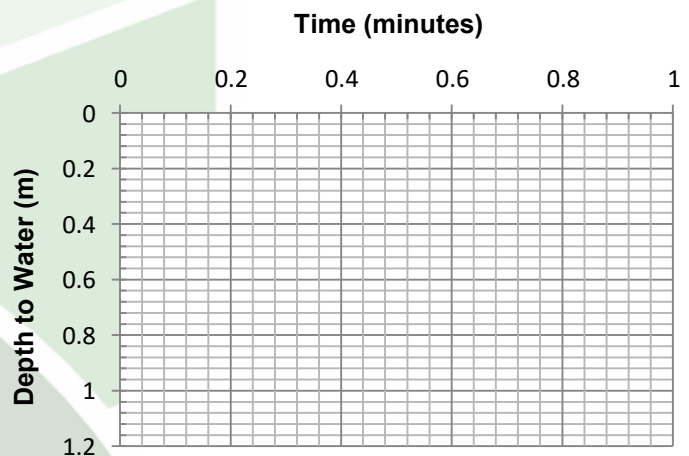


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

Trial Pit: **SA307**

TEST 1		Time (minutes)
Length	1.80 m	
Bredth	0.60 m	
Depth	2.60 m	
Fill Level	2.20 m	
V_{p75-25}	0.216 m ³	
a_{p50}	2.04 m ²	
t_{p75-25}	0 minutes	
Soil Infiltration Rate, f	- ms ⁻¹	
Too little water take to calculate infiltration rate		
TEST 2		Time (minutes)
Length		
Bredth		
Depth		
Fill Level		
V_{p75-25}	0 m ³	
a_{p50}	0 m ²	
t_{p75-25}	0 minutes	
Soil Infiltration Rate, f	- ms ⁻¹	
TEST 3		Time (minutes)
Length		
Bredth		
Depth		
Fill Level		
V_{p75-25}	0 m ³	
a_{p50}	0 m ²	
t_{p75-25}	0 minutes	
Soil Infiltration Rate, f	- ms ⁻¹	
REMARKS: Test carried out in genral accordance with BRE DIGEST 365 (2016)		

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

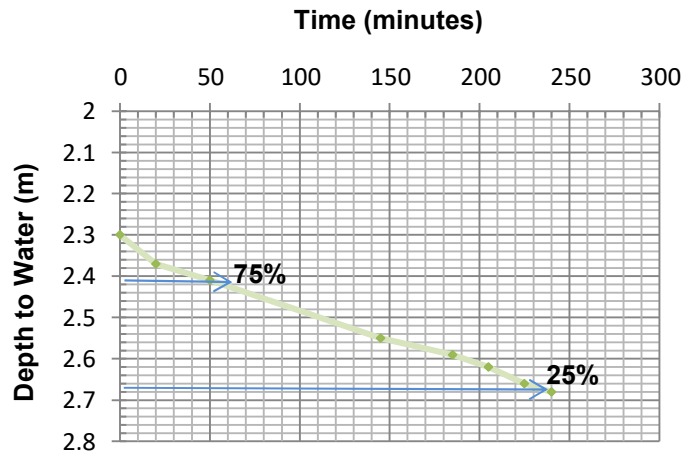
Trial Pit: **SA308**

TEST 1

Length 1.70 m
Bredth 0.60 m
Depth 2.80 m
Fill Level 2.30 m

V_{p75-25} 0.255 m³
 a_{p50} 2.17 m²
 t_{p75-25} 175 minutes

Soil Infiltration Rate, f 1.12E-05 ms⁻¹

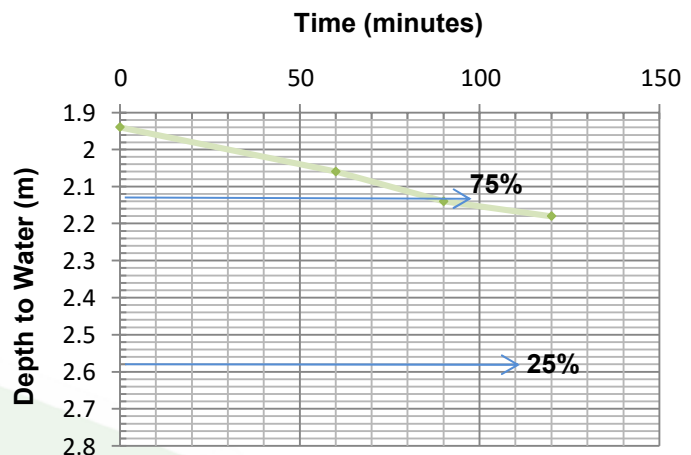


TEST 2

Length 1.70 m
Bredth 0.60 m
Depth 2.80 m
Fill Level 1.94 m

V_{p75-25} 0.439 m³
 a_{p50} 2.998 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f ms⁻¹
Soakaway test not completed due to time constraints

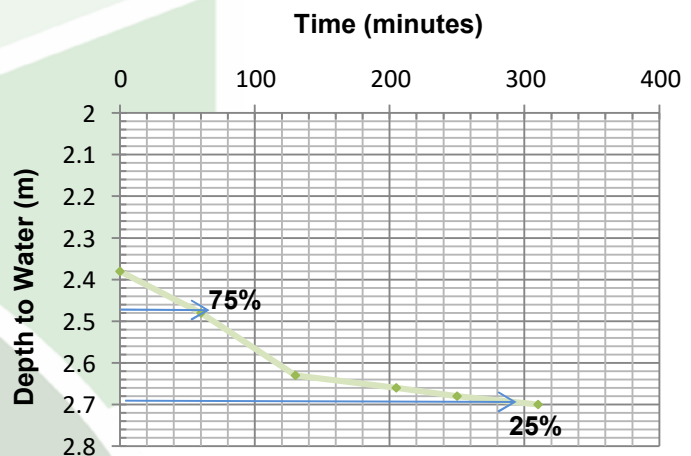


TEST 3

Length 1.70 m
Bredth 0.60 m
Depth 2.80 m
Fill Level 2.38 m

V_{p75-25} 0.214 m³
 a_{p50} 1.986 m²
 t_{p75-25} 230 minutes

Soil Infiltration Rate, f 7.82E-06 ms⁻¹



REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

Trial Pit: **SA309**

TEST 1		Time (minutes)	
Length	1.60 m		
Bredth	0.60 m		
Depth	1.40 m		
Fill Level	1.04 m		
V_{p75-25}	0.173 m ³		
a_{p50}	1.752 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
Too little water take to calculate infiltration rate			
TEST 2		Time (minutes)	
Length			
Bredth			
Depth			
Fill Level			
V_{p75-25}	0 m ³		
a_{p50}	0 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
TEST 3		Time (minutes)	
Length			
Bredth			
Depth			
Fill Level			
V_{p75-25}	0 m ³		
a_{p50}	0 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
REMARKS:			
Test carried out in genral accordance with BRE DIGEST 365 (2016)			

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

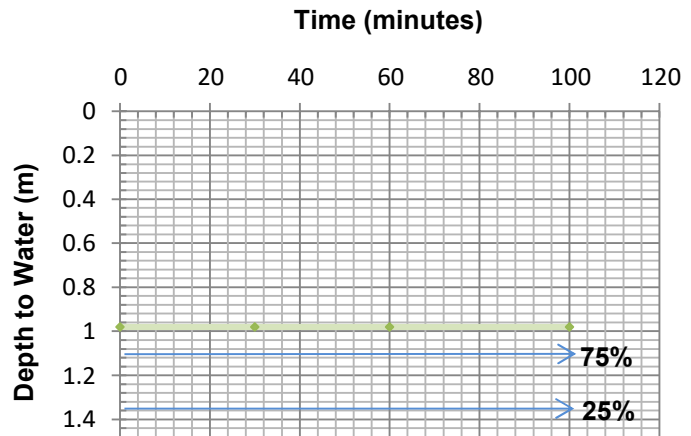
Trial Pit: **SA310**

TEST 1

Length 1.30 m
Bredth 0.60 m
Depth 1.50 m
Fill Level 0.98 m

V_{p75-25} 0.203 m³
 a_{p50} 1.768 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

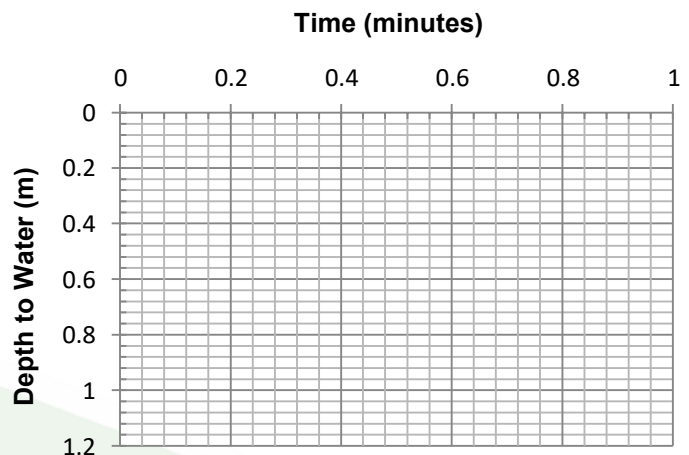


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

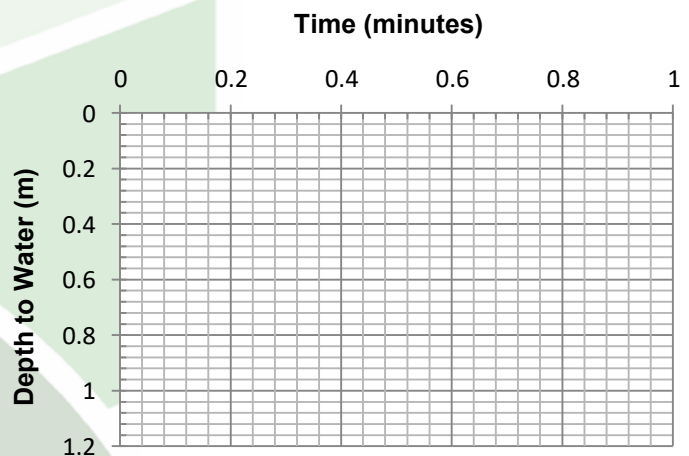


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 15/01/2026
Engineer: Jamie Alderman

Trial Pit: SA311

TEST 1		Time (minutes)	
Length	1.20 m		
Bredth	0.60 m		
Depth	1.40 m		
Fill Level	1.00 m		
V_{p75-25}	0.144 m ³		
a_{p50}	1.44 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		
Too little water take to calculate infiltration rate			

TEST 2		Time (minutes)	
Length	m		
Bredth	m		
Depth	m		
Fill Level	m		
V_{p75-25}	0 m ³		
a_{p50}	0 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		

TEST 3		Time (minutes)	
Length	m		
Bredth	m		
Depth	m		
Fill Level	m		
V_{p75-25}	0 m ³		
a_{p50}	0 m ²		
t_{p75-25}	0 minutes		
Soil Infiltration Rate, f	- ms ⁻¹		

REMARKS:
Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 16/01/2026
Engineer: Jamie Alderman

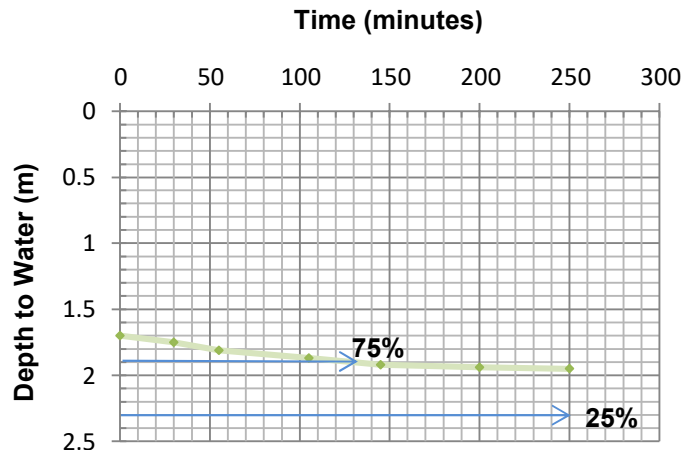
Trial Pit: **SA312**

TEST 1

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0.48 m³
 a_{p50} 3.28 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

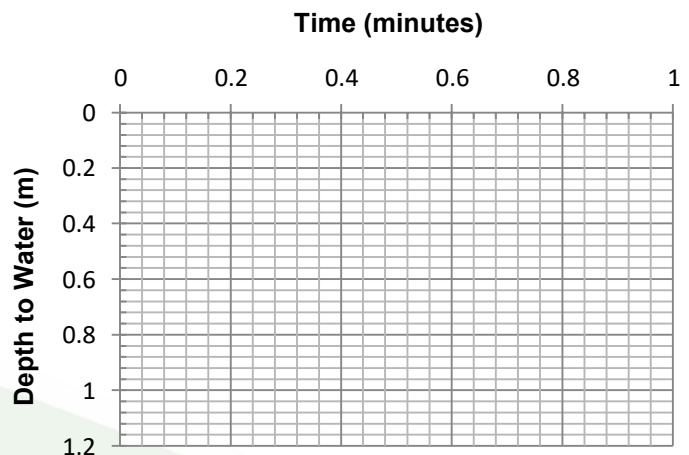


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

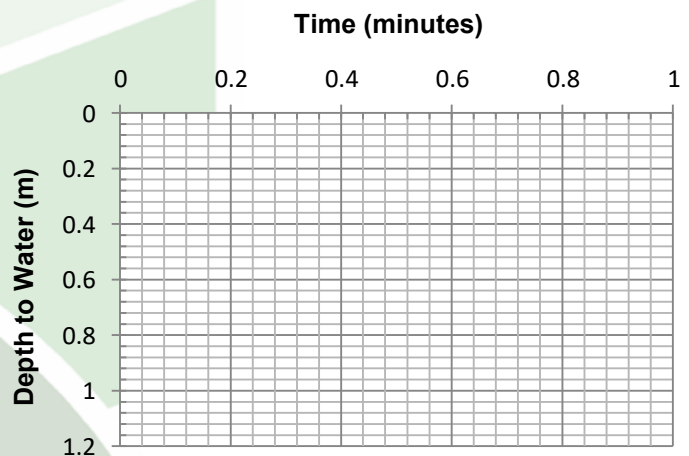


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 16/01/2026
Engineer: Jamie Alderman

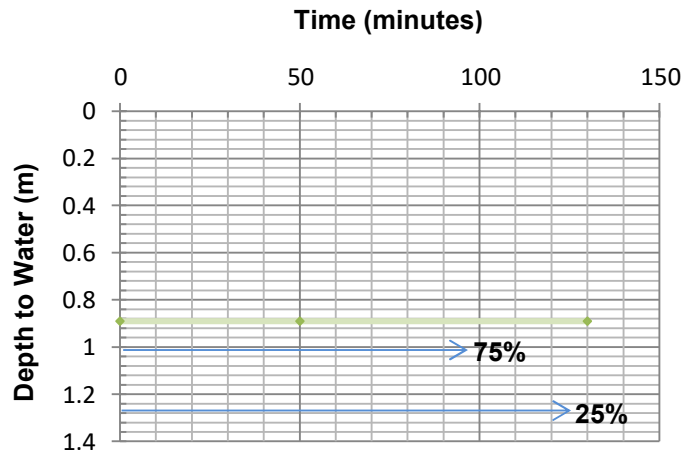
Trial Pit: SA313

TEST 1

Length 1.60 m
Bredth 0.60 m
Depth 1.40 m
Fill Level 0.89 m

V_{p75-25} 0.245 m³
 a_{p50} 2.082 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

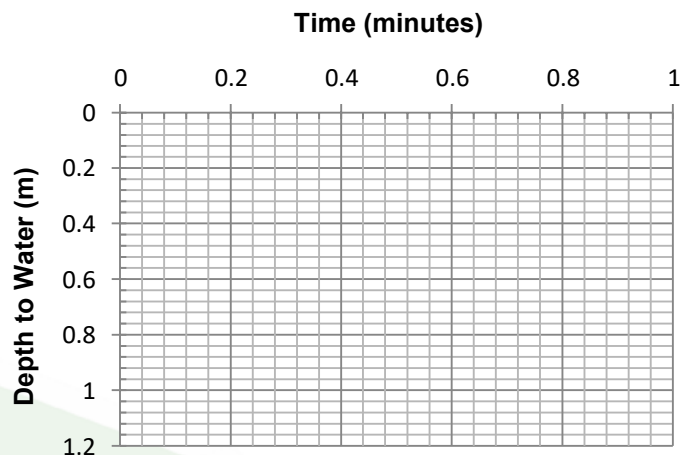


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

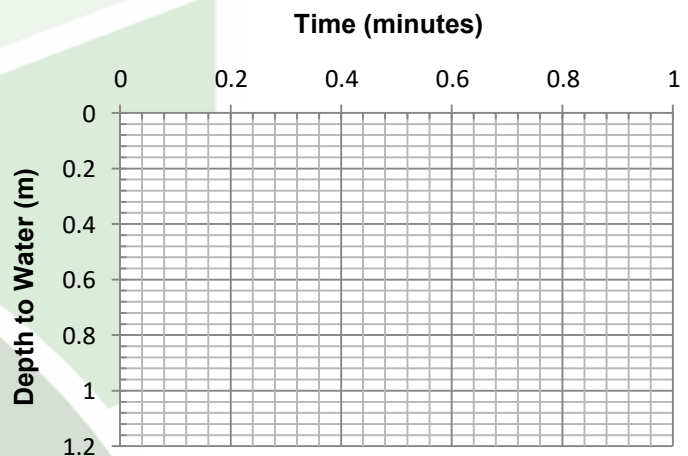


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 16/01/2026
Engineer: Jamie Alderman

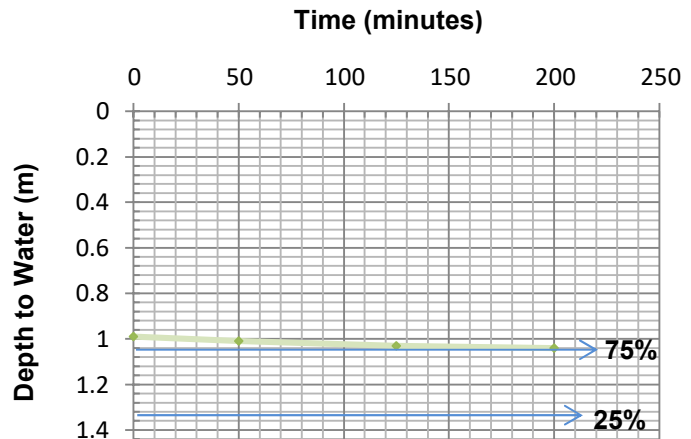
Trial Pit: **SA314**

TEST 1

Length 1.35 m
Bredth 0.60 m
Depth 1.45 m
Fill Level 0.99 m

V_{p75-25} 0.186 m³
 a_{p50} 1.707 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

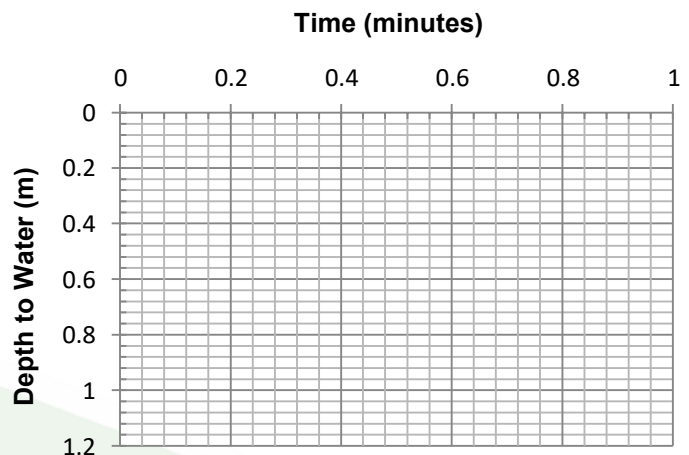


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

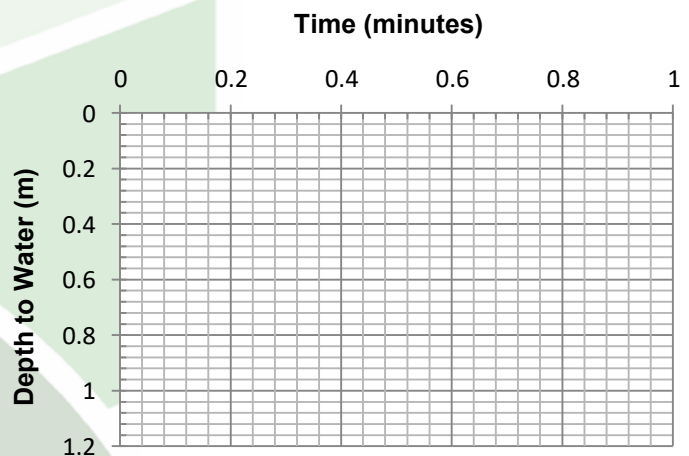


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

SOAKAWAY TEST



Site Name: Herronsbridge School,
Project Number: TF-25-430-CA
Date: 16/01/2026
Engineer: Jamie Alderman

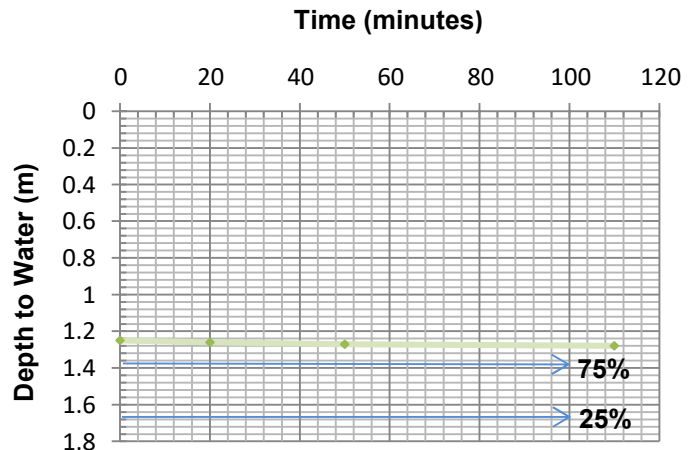
Trial Pit: **SA315**

TEST 1

Length 1.50 m
Bredth 0.60 m
Depth 1.80 m
Fill Level 1.25 m

V_{p75-25} 0.248 m³
 a_{p50} 2.055 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹
Too little water take to calculate infiltration rate

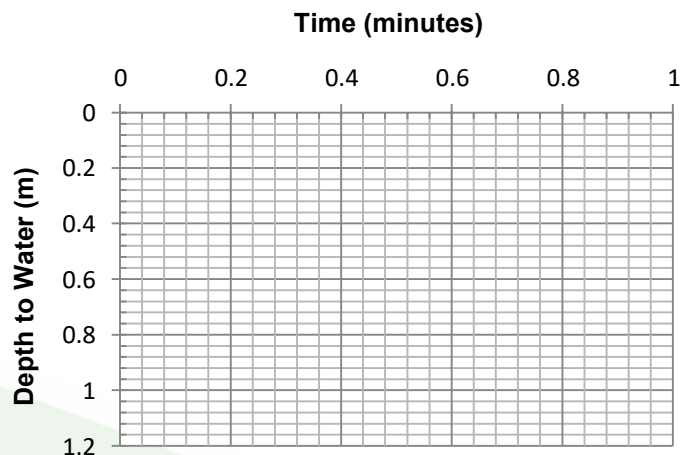


TEST 2

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹

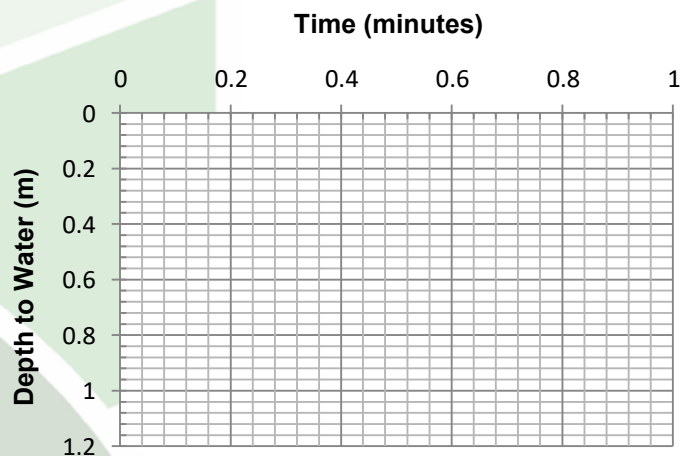


TEST 3

Length m
Bredth m
Depth m
Fill Level m

V_{p75-25} 0 m³
 a_{p50} 0 m²
 t_{p75-25} 0 minutes

Soil Infiltration Rate, f - ms⁻¹



REMARKS:

Test carried out in genral accordance with BRE DIGEST 365 (2016)

[illegible]

ANNEX F
Geotechnical Test Results

DRAFT



Results Summary

Apex Testing Solutions Limited

Sturmi Way
Village Farm Industrial Estate
Pyle
Bridgend
CF33 6BZ

Telephone: 01656 746762

E-mail: andrew.grogan@apex-drilling.com

laura.davis@apex-drilling.com

<u>Reporting Details</u>		<u>Key Information</u>	
Company Name:	TFW Group Ltd	Site Name:	Héronsbridge
Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA	Job Number:	D26030
Contact Name:	Jamie Alderman	Date Received:	22/01/2026
Contact Number:		Job Coordinator:	G. Llewellyn

Item No.	Tests Undertaken	Number of Tests
1	Water Content - ISO 17892 2014	19
2	Atterburg Limits (4 point) - BS1377-2: 1990	6
3	Particle Size Distribution - BS1377-2: 1990	10
4	Sedimentation by Pipette Method - BS1377-2: 1990	10
5	OMC - BS1377-4: 1990 using 2.5kg Rammer in 1L mould	4
6	OMC - BS1377-4: 1990 using 2.5kg Rammer in CBR mould	6

Results Issued: 30/01/2026

Comments

Results herein relate only to samples received in the laboratory and where not sampled by Apex Testing Solutions personnel relate to the samples as received.

Where tests are UKAS accredited any Opinion and/or Interpretation expressed herein are outside the scope of the UKAS Accreditation.

The reports shall not be reproduced in full without the written approval of the laboratory.

Please contact the job coordinator should any further information be required.

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44590

Site Ref / Hole ID: TP01

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 1.00

Sample Type: Bulk

Material Description: Brown slightly sandy
gravelly CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

11.7

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

27/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

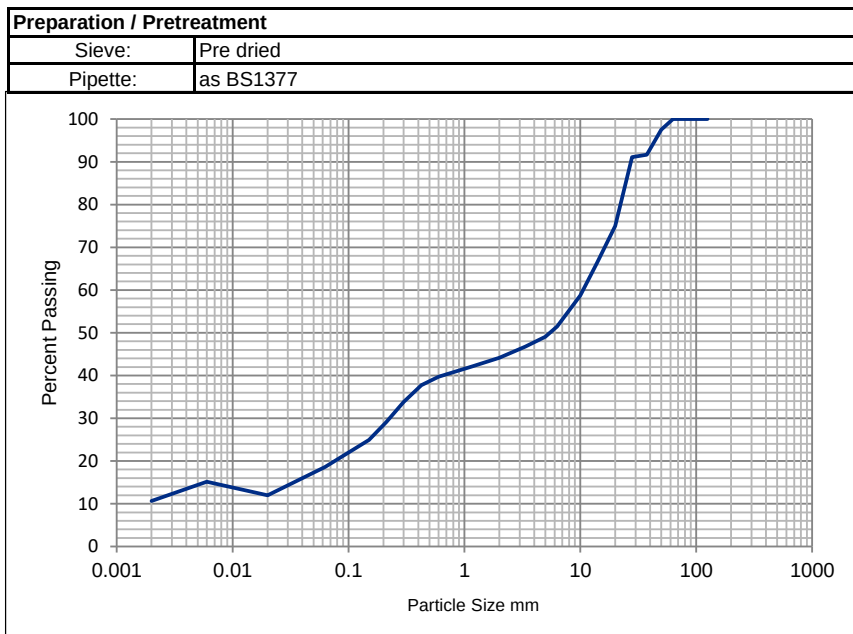
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44590		

Site Ref / Hole ID:	TP01	Depth (m):	1.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly sandy gravelly CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	98
37.5	92
28	91
20	75
14	66
10	59
6.3	51
5.0	49
3.35	47
2.00	44
1.18	42
0.600	40
0.425	38
0.300	34
0.212	29
0.150	25
0.063	19

Sedimentation	
Particle Size mm	% Passing
0.0201	12
0.0060	15
0.0020	11



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D ₆₀ / D ₁₀
Cobbles / Boulders	0	2.65 assumed	
Gravel	56		
Sand	26	Dry mass of sample, kg	
Silt	8	9.3	n/a
Clay	11		

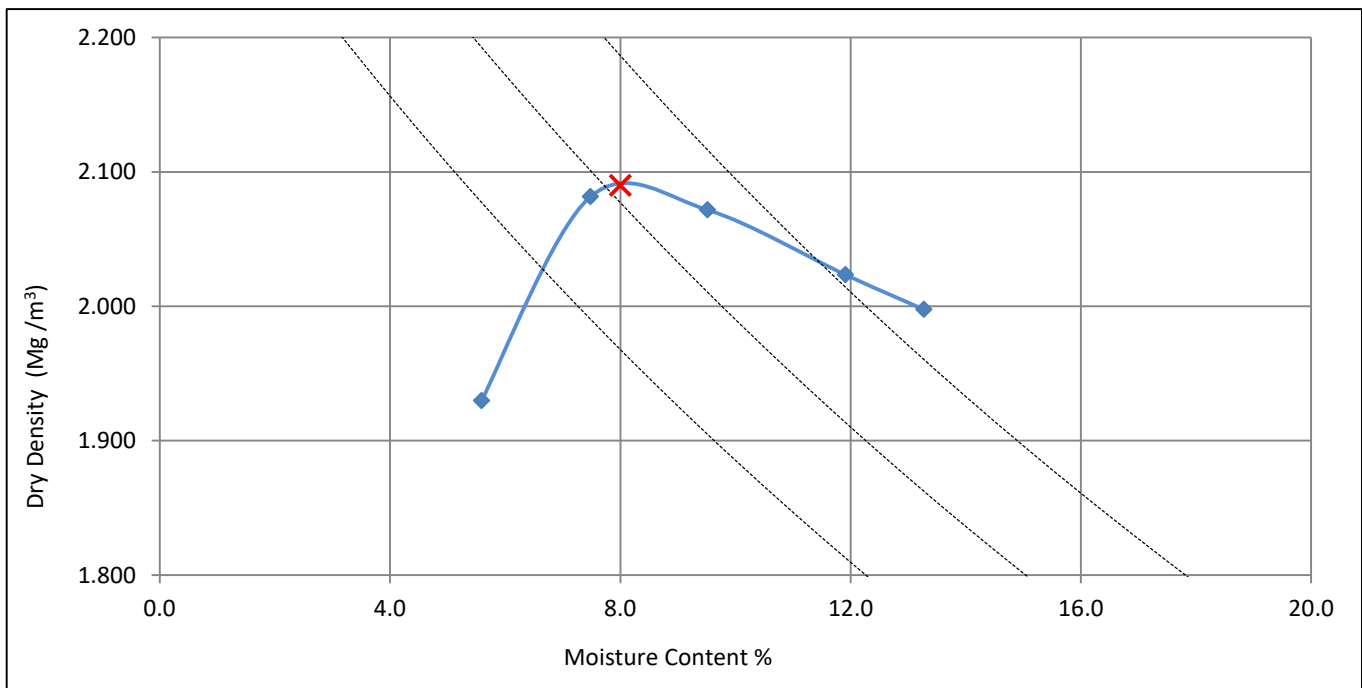
Remarks:

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44590		

Site Ref / Hole ID:	TP01	Depth (m):	1.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly sandy gravelly CLAY
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	22 January 2026



Test Method:	BS 1377: part 2: 2022: clause 11.4, 2.5kg rammer in a CBR mould		
Preparation:	Original sample was natural, separate specimens tested		

Particle Density, Mg/m ³	2.65	assumed
Material > 37.5mm	2	%
Material < 37.5mm > 20mm	19	%

Derived Parameters ✗	
Maximum Dry Density, Mg/m ³	2.09
Optimum Moisture Content %	8

Remarks:	NMC 11.9 = %
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DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44591

Site Ref / Hole ID: TP01

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 2.00

Sample Type: Bulk

Material Description: Brown clayey sandy
GRAVEL

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

9.7

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

27/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

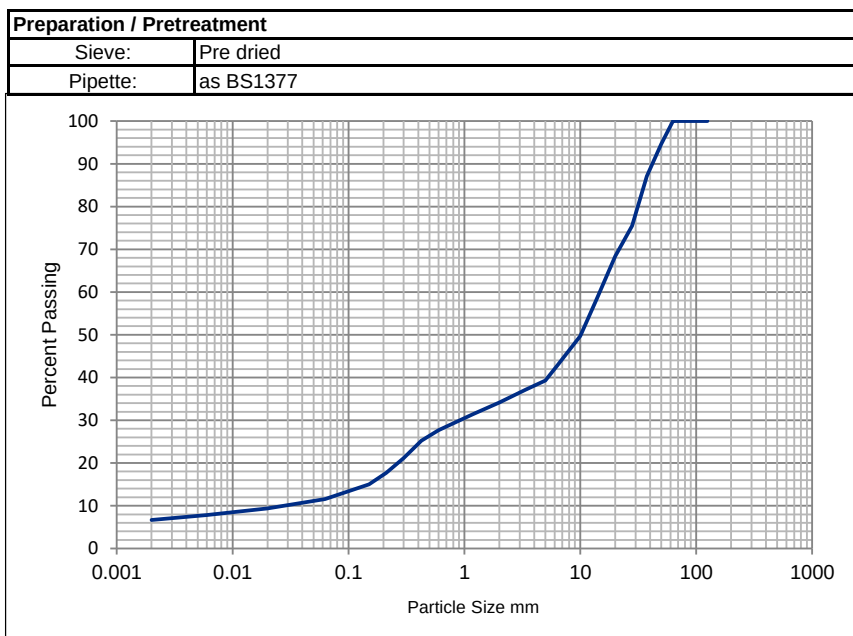
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44591		

Site Ref / Hole ID:	TP01	Depth (m):	2.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown clayey sandy GRAVEL
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	95
37.5	87
28	75
20	68
14	59
10	50
6.3	43
5.0	39
3.35	37
2.00	34
1.18	31
0.600	28
0.425	25
0.300	21
0.212	18
0.150	15
0.063	12

Sedimentation	
Particle Size mm	% Passing
0.0201	9
0.0060	8
0.0020	7

**Remarks:**

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend,
 CF33 6BZ
 Tel: 01656 746762 Fax: 01656 749096



7771

Approver

L Davis

L Davis, Quality Manager

Date

27/01/2026

Fig

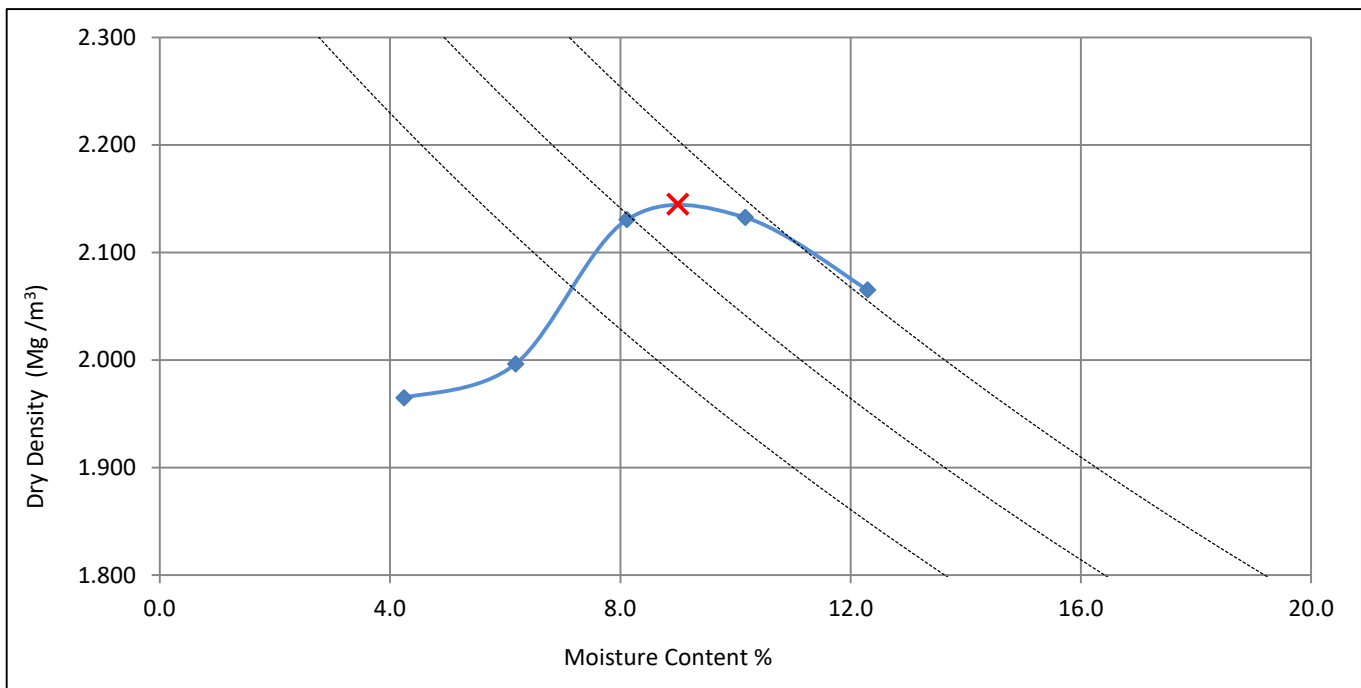
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44591		

Site Ref / Hole ID:	TP01	Depth (m):	2.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown clayey sandy GRAVEL
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	22 January 2026



Test Method:	BS 1377: part 2: 2022: clause 11.4, 2.5kg rammer in a CBR mould		
Preparation:	Original sample was natural, separate specimens tested		

Particle Density, Mg/m ³	2.75	assumed	
Material > 37.5mm	11	%	
Material < 37.5mm > 20mm	16	%	

Derived Parameters ✗	
Maximum Dry Density, Mg/m ³	2.15
Optimum Moisture Content %	9

Remarks:	NMC = 10.2 % Tested a 'X' sample due to oversize material		
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DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44592

Site Ref / Hole ID: TP02

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 0.90

Sample Type: Bulk

Material Description: Brown slightly gravelly
slightly sandy SILT

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

13.6

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

Date

27/01/2026

Fig

MC

A Grogan, Laboratory Manager

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

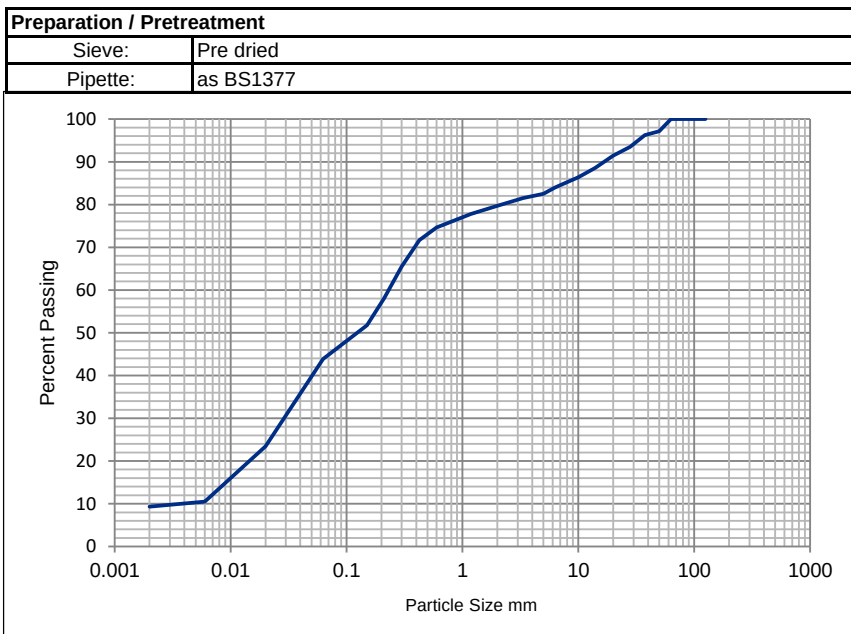
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44592		

Site Ref / Hole ID:	TP02	Depth (m):	0.90
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly slightly sandy SILT
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	97
37.5	96
28	93
20	91
14	89
10	86
6.3	84
5.0	83
3.35	82
2.00	80
1.18	78
0.600	75
0.425	72
0.300	65
0.212	58
0.150	52
0.063	44

Sedimentation	
Particle Size mm	% Passing
0.0201	23
0.0060	10
0.0020	9

**Remarks:**

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend,
 CF33 6BZ
 Tel: 01656 746762 Fax: 01656 749096



7771

Approver

L Davis

L Davis, Quality Manager

Date

27/01/2026

Fig

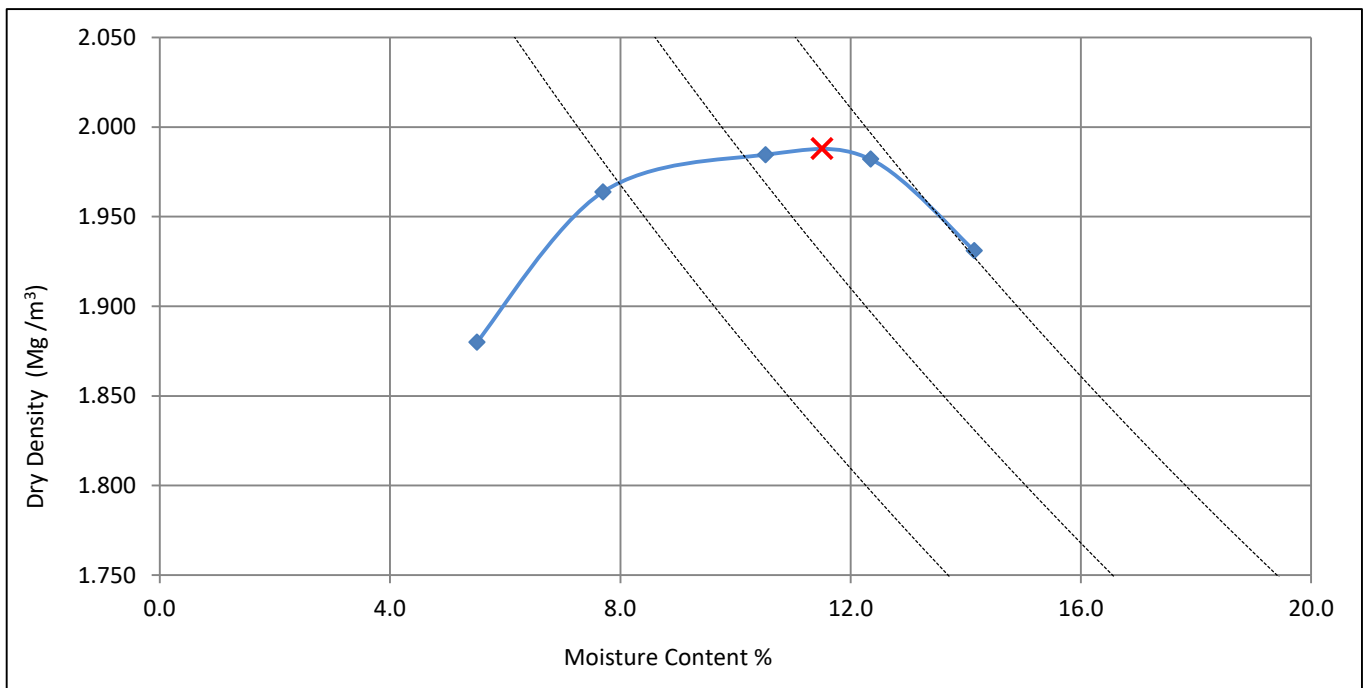
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44592		

Site Ref / Hole ID:	TP02	Depth (m):	0.90
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly slightly sandy SILT
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	23 January 2026



Test Method:	BS 1377: part 2: 2022: clause 11.4, 2.5kg rammer in a CBR mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m ³	2.65	assumed	Derived Parameters ×	
Material > 37.5mm	7	%	Maximum Dry Density, Mg/m ³	1.99
Material < 37.5mm > 20mm	8	%	Optimum Moisture Content %	12

Remarks:

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44593

Site Ref / Hole ID: TP02

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 1.00

Sample Type: Disturbed

Material Description: Brown slightly gravelly
CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

16.2

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

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Approver

A Grogan

A Grogan, Laboratory Manager

Date

28/01/2026

Fig

MC

DRAFT

TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

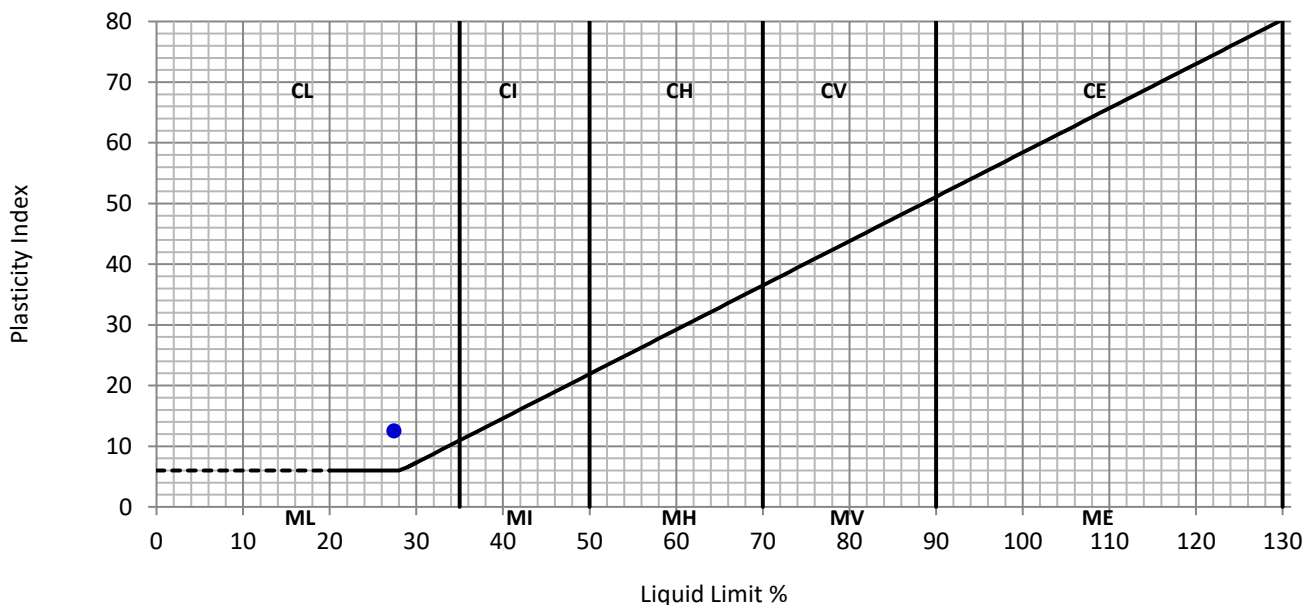
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44593		

Site Ref / Hole ID:	TP02	Depth (m):	1.00
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026

Test Results

Liquid Limit	27	%
Plastic Limit	15	%
Plasticity Index	12	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	15 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 3.0



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est, Pyle,
Bridgend, CF33 6BZ
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Approver

A Grogan

A Grogan, Laboratory Manager

Date

28/01/2026

Fig.

ATT

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TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44594

Site Ref / Hole ID: TP02

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 2.20

Sample Type: Bulk

Material Description: Brown slightly sandy
gravelly CLAY with
medium cobble content

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

9.8

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

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Approver

A Grogan

A Grogan, Laboratory Manager

Date

27/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

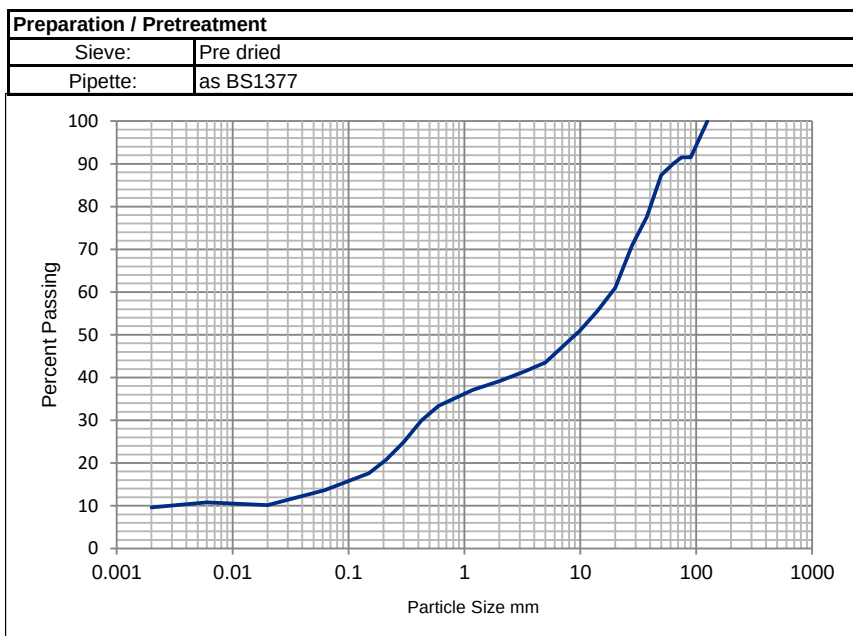
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44594		

Site Ref / Hole ID:	TP02	Depth (m):	2.20
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly sandy gravelly CLAY with medium cobble content
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	92
75	92
63	90
50	87
37.5	78
28	71
20	61
14	55
10	51
6.3	46
5.0	44
3.35	41
2.00	39
1.18	37
0.600	33
0.425	30
0.300	25
0.212	21
0.150	18
0.063	14

Sedimentation	
Particle Size mm	% Passing
0.0201	10
0.0060	11
0.0020	10



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D ₆₀ / D ₁₀
Cobbles / Boulders	10	2.65 assumed	
Gravel	51		
Sand	25	Dry mass of sample, kg	
Silt	4	21.3	n/a
Clay	10		

Remarks:

QA Ref.	 Apex Testing Solutions Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend, CF33 6BZ Tel: 01656 746762 Fax: 01656 749096	Approver	Date	Fig
BS1377 - 2 Rev. 2.0		L Davis	27/01/2026	PSD
		L Davis, Quality Manager		



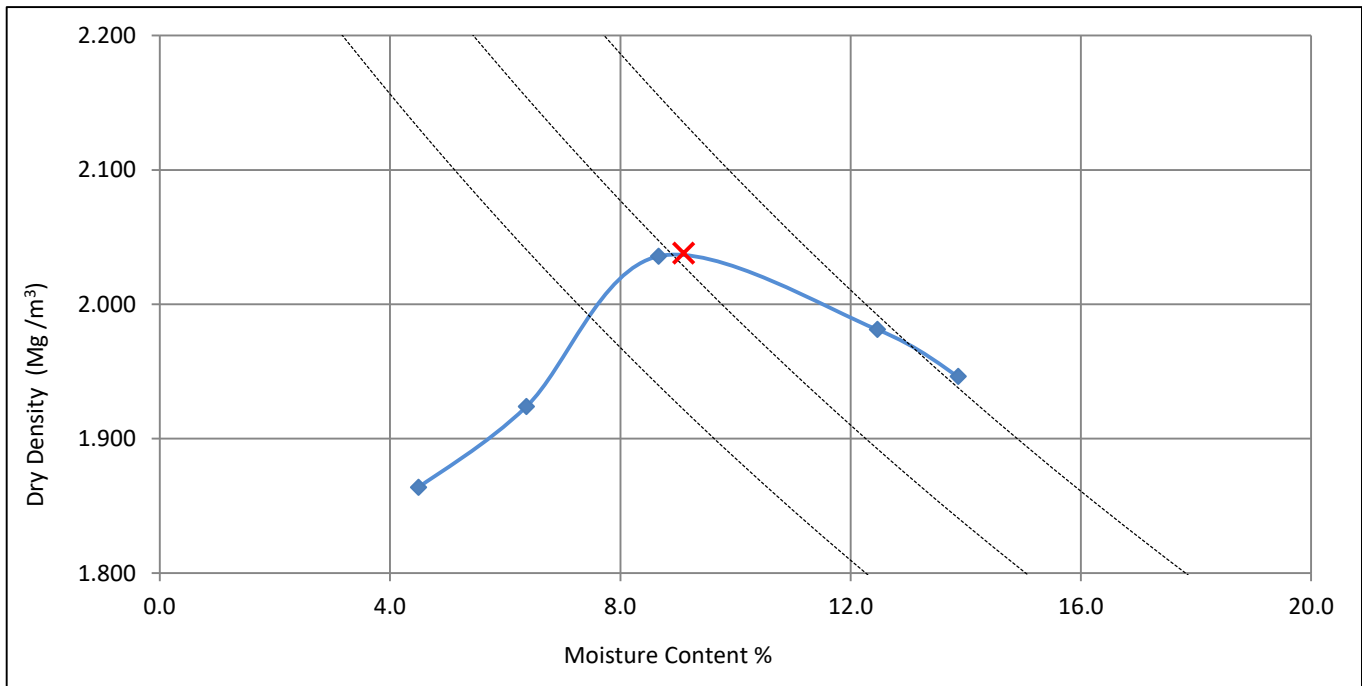
7771

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TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44594		

Site Ref / Hole ID:	TP02	Depth (m):	2.20
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly sandy gravelly CLAY with medium cobble content
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	26 January 2026



Test Method:	BS 1377: part 2:2022: clause 11.3, 2.5kg rammer in a 1 litre mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.65	assumed
Material > 37.5mm	22	%
Material < 37.5mm > 20mm	17	%

Derived Parameters ✗	
Maximum Dry Density, Mg/m³	2.04
Optimum Moisture Content %	9.1

Remarks:
Tested a 'X' sample due to oversize material

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44595

Site Ref / Hole ID: TP03

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 1.00

Sample Type: Bulk

Material Description: Brown slightly gravelly
sandy SILT

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

13.0

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



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Approver

A Grogan

A Grogan, Laboratory Manager

Date

28/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

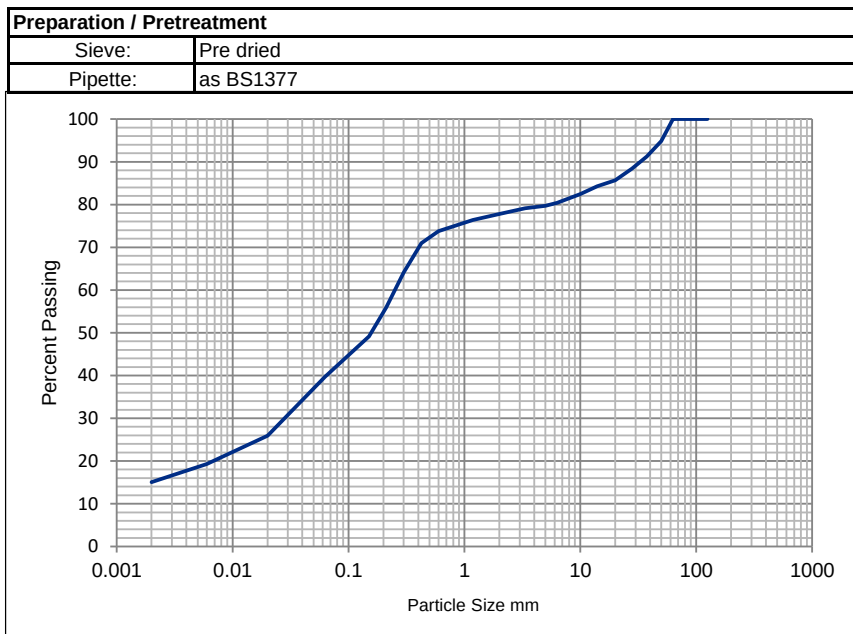
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44595		

Site Ref / Hole ID:	TP03	Depth (m):	1.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly sandy SILT
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	95
37.5	91
28	88
20	86
14	84
10	82
6.3	80
5.0	80
3.35	79
2.00	78
1.18	76
0.600	74
0.425	71
0.300	64
0.212	56
0.150	49
0.063	40

Sedimentation	
Particle Size mm	% Passing
0.0201	26
0.0060	19
0.0020	15



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D ₆₀ / D ₁₀
Cobbles / Boulders	0	2.65 assumed	
Gravel	22		
Sand	38	Dry mass of sample, kg	
Silt	25	9.9	n/a
Clay	15		

Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend,
 CF33 6BZ
 Tel: 01656 746762 Fax: 01656 749096



7771

Approver

G Llewellyn

G Llewellyn, Senior Technician

Date

28/01/2026

Fig

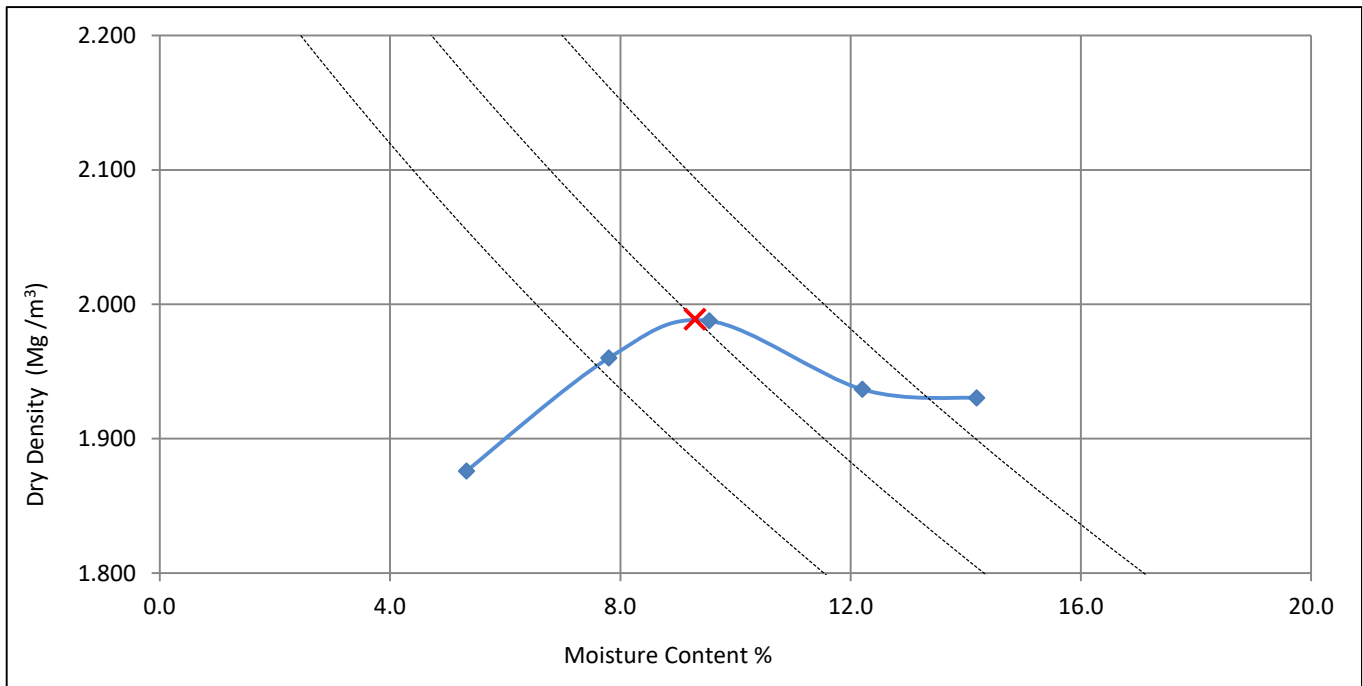
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44595		

Site Ref / Hole ID:	TP03	Depth (m):	1.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly sandy SILT
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	26 January 2026



Test Method:	BS 1377: part 2: 2022: clause 11.4, 2.5kg rammer in a CBR mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.60	assumed
Material > 37.5mm	3	%
Material < 37.5mm > 20mm	10	%

Derived Parameters ✗	
Maximum Dry Density, Mg/m³	1.99
Optimum Moisture Content %	9.3

Remarks:

QA Ref.	 Apex Testing Solutions Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend, CF33 6BZ Tel: 01656 746762 Fax: 01656 749096	 7771	Approver	Date	Fig. COMP
BS1377 -2:2022 Rev. 3.0			<i>G Llewellyn</i> G Llewellyn, Senior Technician	28/01/2026	

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44596

Site Ref / Hole ID: TP03

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 2.20

Sample Type: Bulk

Material Description: Brown clayey very sandy
GRAVEL with low cobble
content

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

10.9

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

27/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

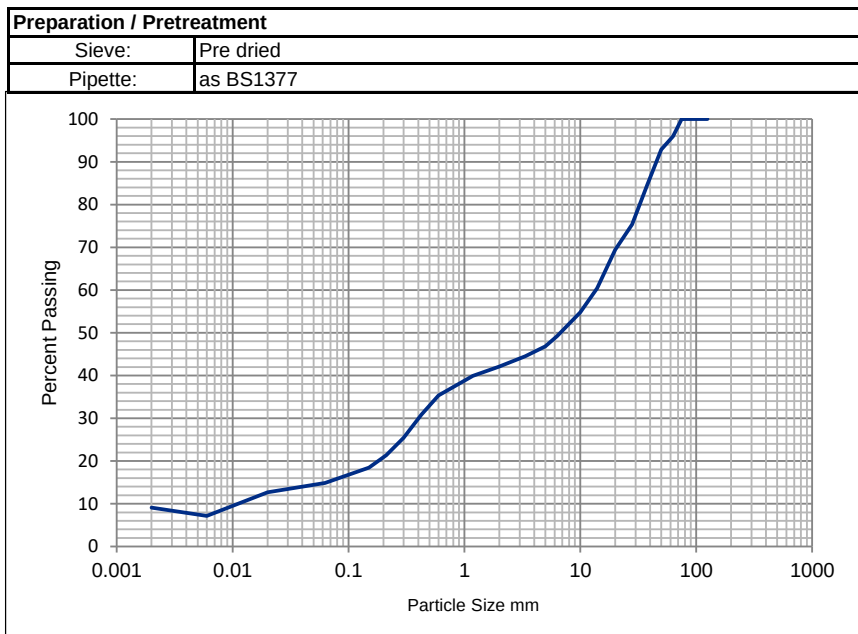
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44596		

Site Ref / Hole ID:	TP03	Depth (m):	2.20
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown clayey very sandy GRAVEL with low cobble content
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	26 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	96
50	93
37.5	84
28	75
20	69
14	60
10	55
6.3	49
5.0	47
3.35	45
2.00	42
1.18	40
0.600	35
0.425	31
0.300	25
0.212	21
0.150	18
0.063	15

Sedimentation	
Particle Size mm	% Passing
0.0201	13
0.0060	7
0.0020	9



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient
Cobbles / Boulders	4	2.65 assumed	
Gravel	54		
Sand	27	Dry mass of sample, kg	D ₆₀ / D ₁₀
Silt	6	10.9	n/a
Clay	9		

Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend,
 CF33 6BZ
 Tel: 01656 746762 Fax: 01656 749096



7771

Approver

L Davis

L Davis, Quality Manager

Date

27/01/2026

Fig

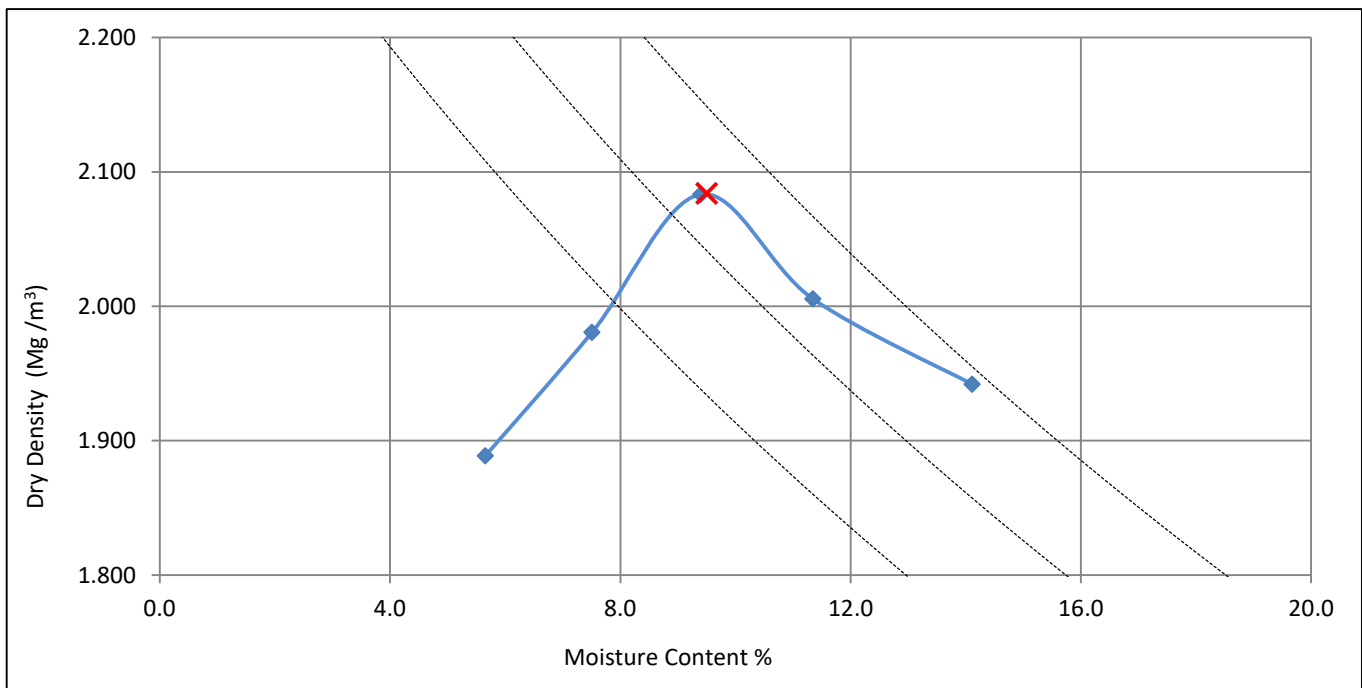
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44596		

Site Ref / Hole ID:	TP03	Depth (m):	2.20
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown clayey very sandy GRAVEL with low cobble content
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 April 2026



Test Method:	BS 1377: part 2:2022: clause 11.3, 2.5kg rammer in a 1 litre mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.70	assumed	Derived Parameters ✗
Material > 37.5mm	16	%	Maximum Dry Density, Mg/m³
Material < 37.5mm > 20mm	15	%	Optimum Moisture Content %

Remarks:	Tested a 'X' sample due to oversize material
----------	--

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44597

Site Ref / Hole ID: TP04

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 1.50

Sample Type: Bulk

Material Description: Brown clayey very sandy
GRAVEL with low cobble
content

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

9.8

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



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Approver

A Grogan

A Grogan, Laboratory Manager

Date

28/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44597		

Site Ref / Hole ID:	TP04	Depth (m):	1.50
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown clayey very sandy GRAVEL with low cobble content
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

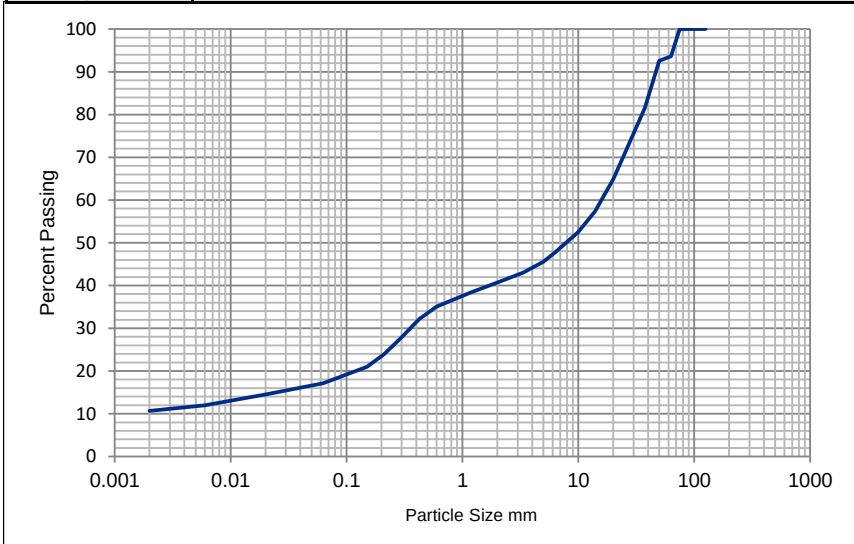
Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	94
50	93
37.5	82
28	74
20	65
14	57
10	52
6.3	48
5.0	46
3.35	43
2.00	41
1.18	38
0.600	35
0.425	32
0.300	28
0.212	24
0.150	21
0.063	17

Sedimentation	
Particle Size mm	% Passing
0.0201	15
0.0060	12
0.0020	11

Preparation / Pretreatment

Sieve:	Pre dried
Pipette:	as BS1377



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient
Cobbles / Boulders	6	2.65 assumed	
Gravel	53		
Sand	24	Dry mass of sample, kg	D ₆₀ / D ₁₀
Silt	6	21.4	n/a
Clay	11		

Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle, Bridgend,
 CF33 6BZ
 Tel: 01656 746762 Fax: 01656 749096



7771

Approver

G Llewellyn

G Llewellyn, Senior Technician

Date

28/01/2026

Fig

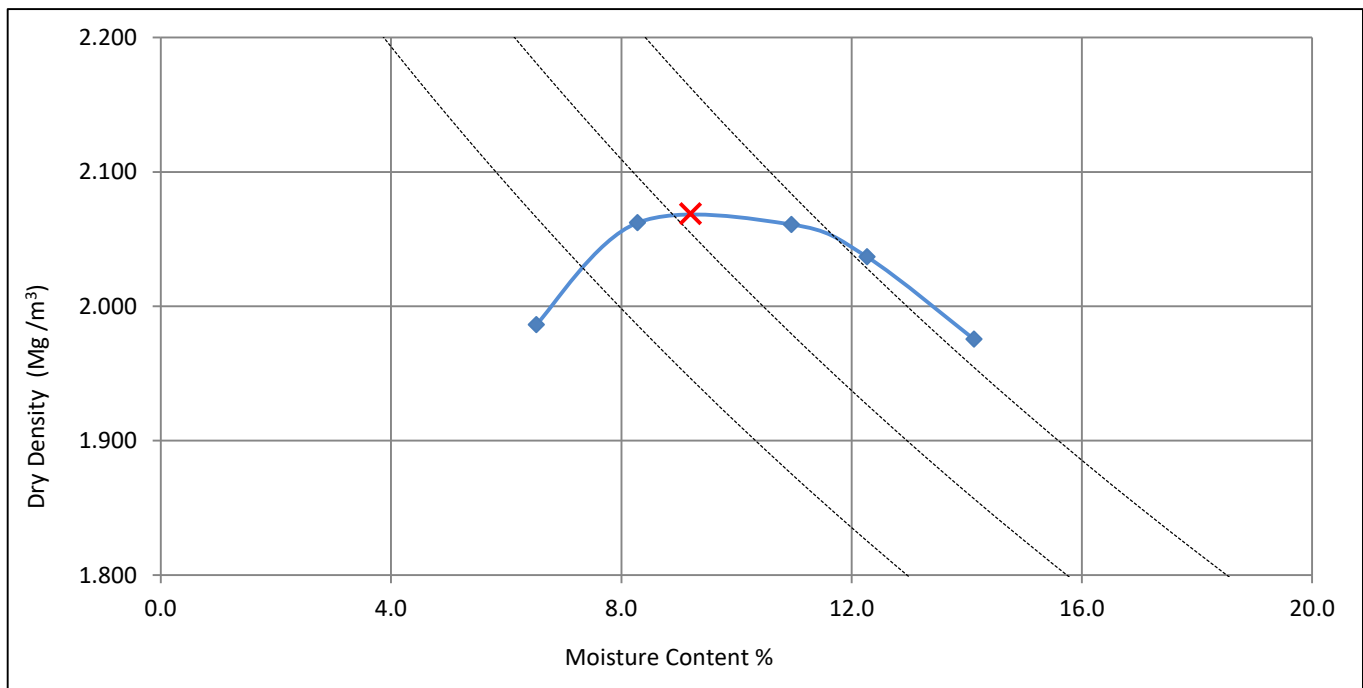
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44597		

Site Ref / Hole ID:	TP04	Depth (m):	1.50
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown clayey very sandy GRAVEL with low cobble content
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026



Test Method:	BS 1377: part 2: 2022: clause 11.4, 2.5kg rammer in a CBR mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.70	assumed
Material > 37.5mm	13	%
Material < 37.5mm > 20mm	15	%

Derived Parameters ✗	
Maximum Dry Density, Mg/m³	2.07
Optimum Moisture Content %	9.2

Remarks:
Tested a 'X' sample due to oversize material

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44598

Site Ref / Hole ID: SA307

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 0.80

Sample Type: Bulk

Material Description: Brown gravelly silty
SAND

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 26 January 2026

Test Results

Water Content (%)

16.9

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

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7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

28/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

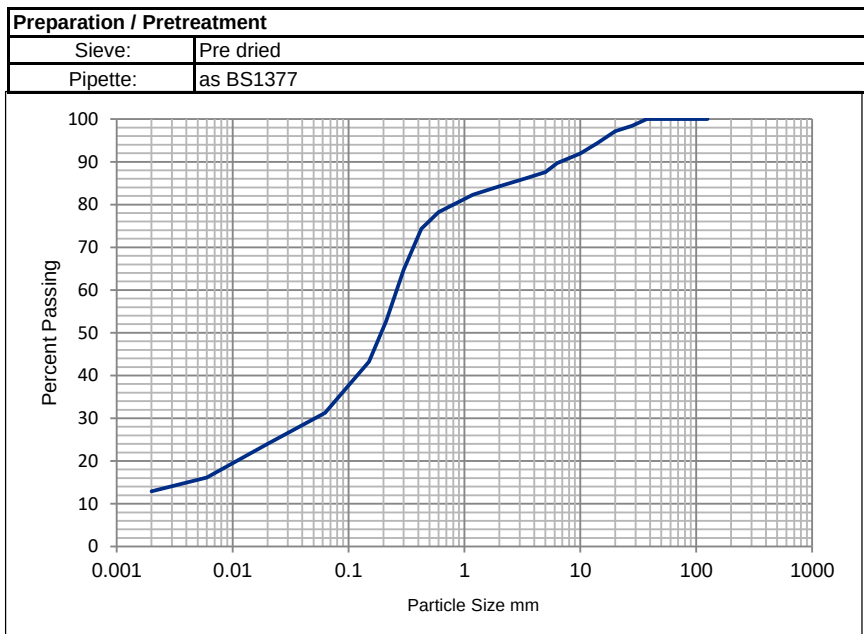
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44598		

Site Ref / Hole ID:	SA307	Depth (m):	0.80
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown gravelly silty SAND
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	98
20	97
14	94
10	92
6.3	90
5.0	88
3.35	86
2.00	84
1.18	82
0.600	78
0.425	74
0.300	65
0.212	53
0.150	43
0.063	31

Sedimentation	
Particle Size mm	% Passing
0.0201	24
0.0060	16
0.0020	13

**Remarks:**

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

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Approver

G Llewellyn

G Llewellyn, Senior Technician

Date

28/01/2026

Fig

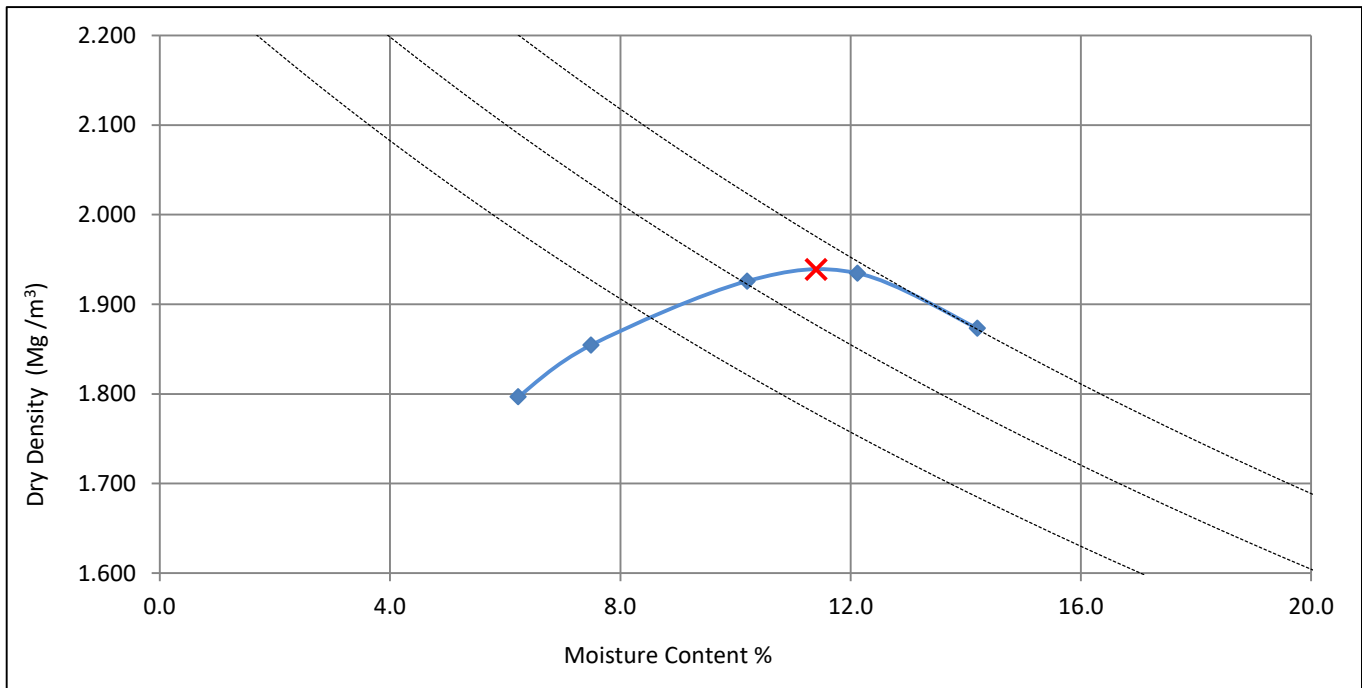
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44598		

Site Ref / Hole ID:	SA307	Depth (m):	0.80
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown gravelly silty SAND
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026



Test Method:	BS 1377: part 2:2022: clause 11.3, 2.5kg rammer in a 1 litre mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.55	assumed
Material > 37.5mm	0	%
Material < 37.5mm > 20mm	3	%

Derived Parameters ✗	
Maximum Dry Density, Mg/m³	1.94
Optimum Moisture Content %	11

Remarks:

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44599

Site Ref / Hole ID: SA307

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 2.00

Sample Type: Disturbed

Material Description: Brown slightly gravelly
slightly sandy CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

17.1

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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A Grogan, Laboratory Manager

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28/01/2026

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TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44600

Site Ref / Hole ID: SA308

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 1.00

Sample Type: Disturbed

Material Description: Brown slightly gravelly
sandy CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

14.2

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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A Grogan

A Grogan, Laboratory Manager

Date

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TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44601

Site Ref / Hole ID: SA308

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 2.00

Sample Type: Bulk

Material Description: Brown silty very sandy
GRAVEL

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 26 January 2026

Test Results

Water Content (%)

13.8

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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Date

29/01/2026

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A Grogan, Laboratory Manager

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

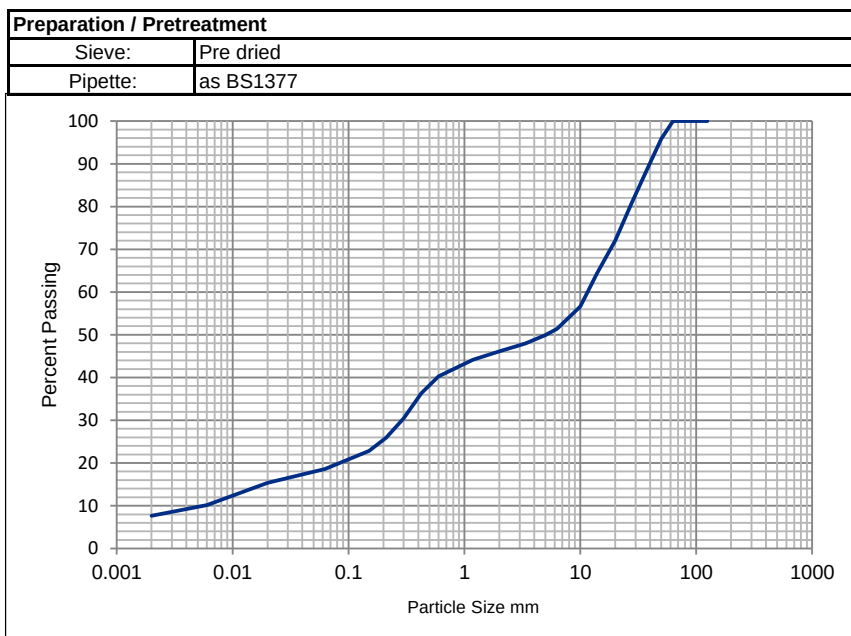
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44601		

Site Ref / Hole ID:	SA308	Depth (m):	2.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown silty very sandy GRAVEL
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	96
37.5	89
28	81
20	72
14	64
10	57
6.3	51
5.0	50
3.35	48
2.00	46
1.18	44
0.600	40
0.425	36
0.300	30
0.212	26
0.150	23
0.063	19

Sedimentation	
Particle Size mm	% Passing
0.0201	15
0.0060	10
0.0020	8



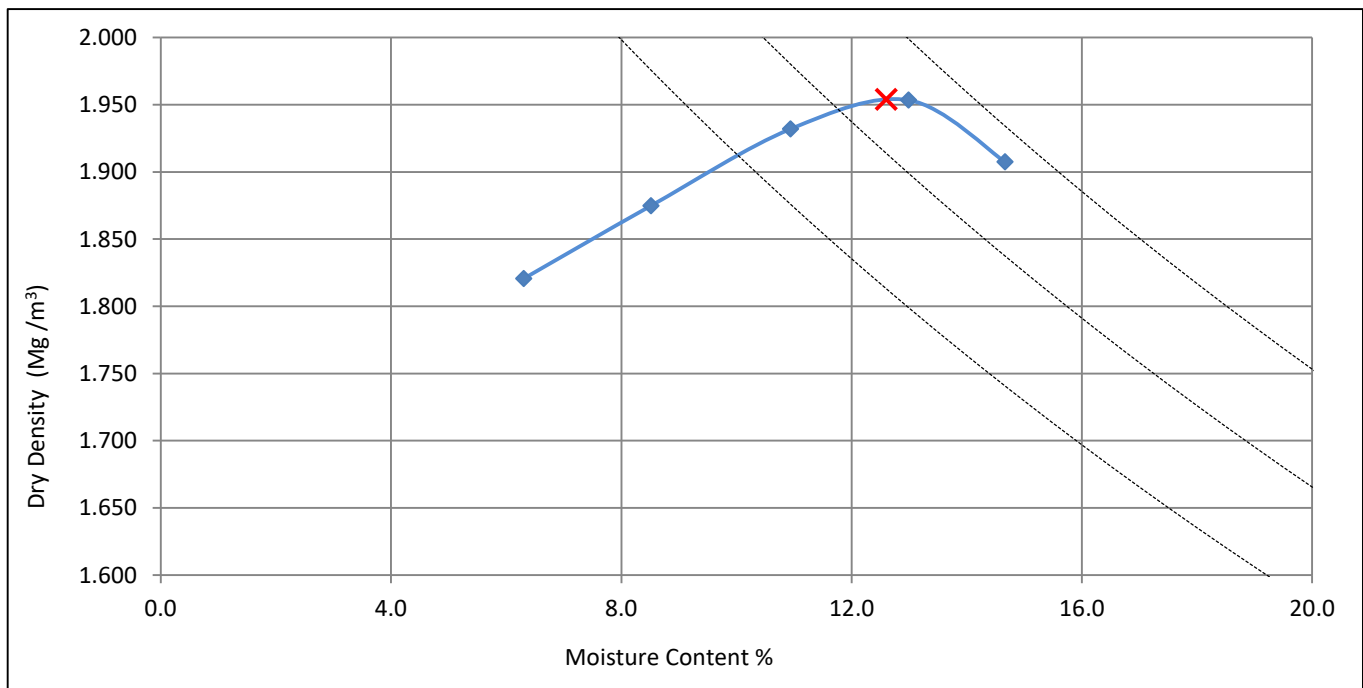
Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D₆₀ / D₁₀
Cobbles / Boulders	0	2.65 assumed	
Gravel	54		
Sand	28	Dry mass of sample, kg	
Silt	11	7.9	n/a
Clay	8		

Remarks:

DRAFT**TEST REPORT****DRY DENSITY / MOISTURE CONTENT RELATIONSHIP****BS1377 -2:2022**

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44601		

Site Ref / Hole ID:	SA308	Depth (m):	2.00
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown silty very sandy GRAVEL
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	27 January 2026



Test Method:	BS 1377: part 2:2022: clause 11.3, 2.5kg rammer in a 1 litre mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.70	assumed
Material > 37.5mm	11	%
Material < 37.5mm > 20mm	16	%

Derived Parameters X	
Maximum Dry Density, Mg/m³	1.95
Optimum Moisture Content %	13

Remarks:	Tested a 'X' sample due to oversize material
----------	--

QA Ref.

BS1377 -2:2022

Rev. 3.0

**Apex Testing Solutions**Sturmi Way, Village Farm Industrial Est, Pyle,
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Approver

G Llewellyn

G Llewellyn, Senior Technician

Date

29/01/2026

Fig.

COMP

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44602

Site Ref / Hole ID: SA312

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 0.60

Sample Type: Bulk

Material Description: Brown silty very sandy
GRAVEL with low cobble
content

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

11.6

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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Approver

A Grogan

A Grogan, Laboratory Manager

Date

29/01/2026

Fig

MC

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

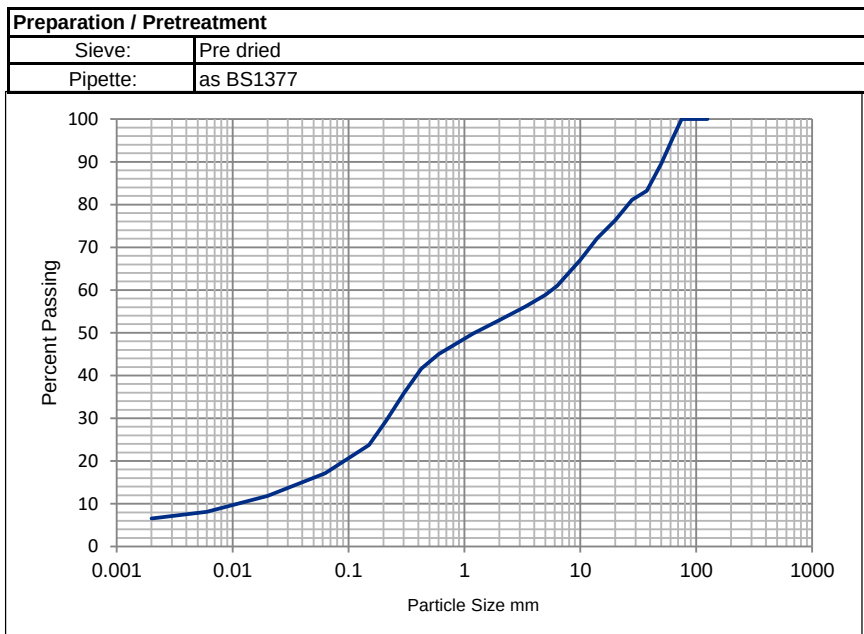
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44602		

Site Ref / Hole ID:	SA312	Depth (m):	0.60
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown silty very sandy GRAVEL with low cobble content
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	96
50	90
37.5	83
28	81
20	76
14	72
10	67
6.3	61
5.0	59
3.35	56
2.00	53
1.18	50
0.600	45
0.425	42
0.300	36
0.212	29
0.150	24
0.063	17

Sedimentation	
Particle Size mm	% Passing
0.0201	12
0.0060	8
0.0020	7



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient
Cobbles / Boulders	4	2.65 assumed	
Gravel	43		
Sand	36	Dry mass of sample, kg	D ₆₀ / D ₁₀
Silt	11	8.5	n/a
Clay	7		

Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0**Apex Testing Solutions**

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Approver

G Llewellyn

G Llewellyn, Senior Technician

Date

29/01/2026

Fig

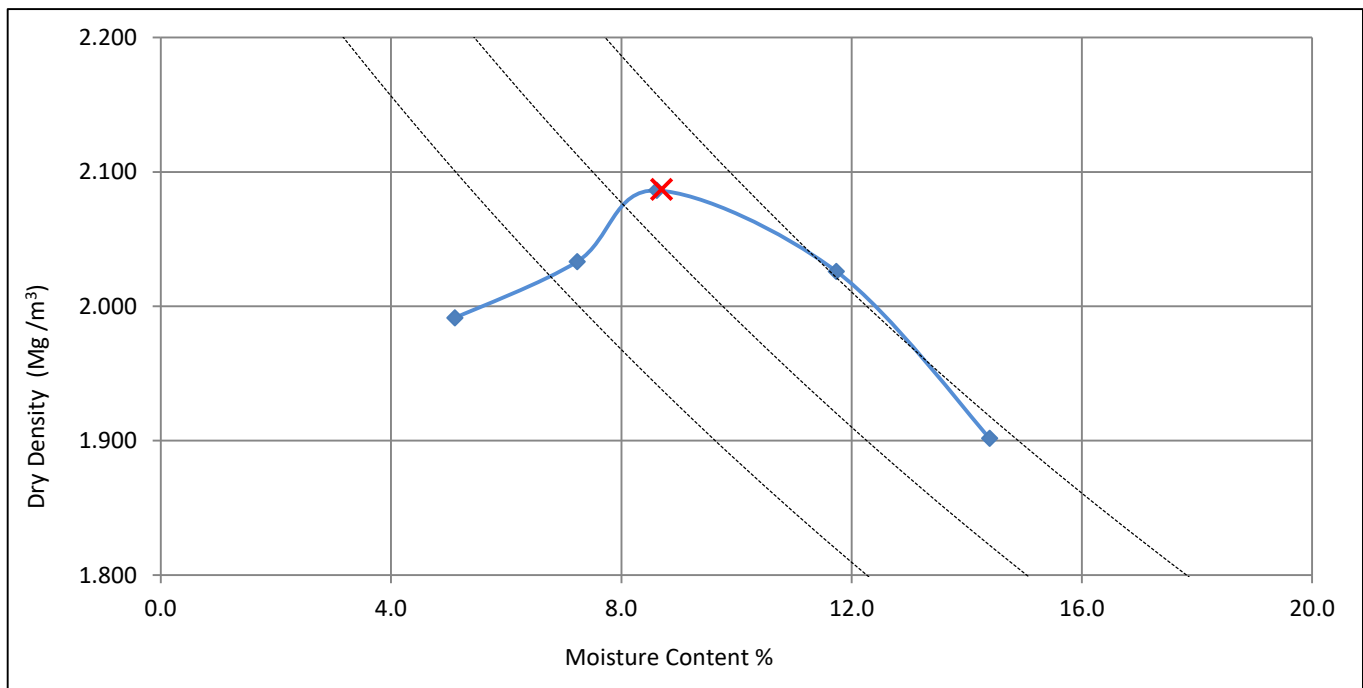
PSD

DRAFT

TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 -2:2022

Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44602		

Site Ref / Hole ID:	SA312	Depth (m):	0.60
Sample No:		Sample Type:	Bulk
Sampling Certificate Received:	No	Material Description:	Brown silty very sandy GRAVEL with low cobble content
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	30 January 2026



Test Method:	BS 1377: part 2: 2022: clause 11.4, 2.5kg rammer in a CBR mould
Preparation:	Original sample was oven dried @ 105 oC, separate specimens tested

Particle Density, Mg/m³	2.65	assumed
Material > 37.5mm	10	%
Material < 37.5mm > 20mm	11	%

Derived Parameters ✗	
Maximum Dry Density, Mg/m³	2.09
Optimum Moisture Content %	8.7

Remarks:
Tested a 'X' sample due to oversize material

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44603

Site Ref / Hole ID: SA312

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 0.80

Sample Type: Disturbed

Material Description: Brown slightly gravelly
sandy CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

12.5

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

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Approver

A Grogan

A Grogan, Laboratory Manager

Date

28/01/2026

Fig

MC

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44604

Site Ref / Hole ID: BH104

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 5.50

Sample Type: Disturbed

Material Description: Brown slightly gravelly
CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

17.0

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

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Approver

A Grogan

A Grogan, Laboratory Manager

Date

29/01/2026

Fig

MC

DRAFT

TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

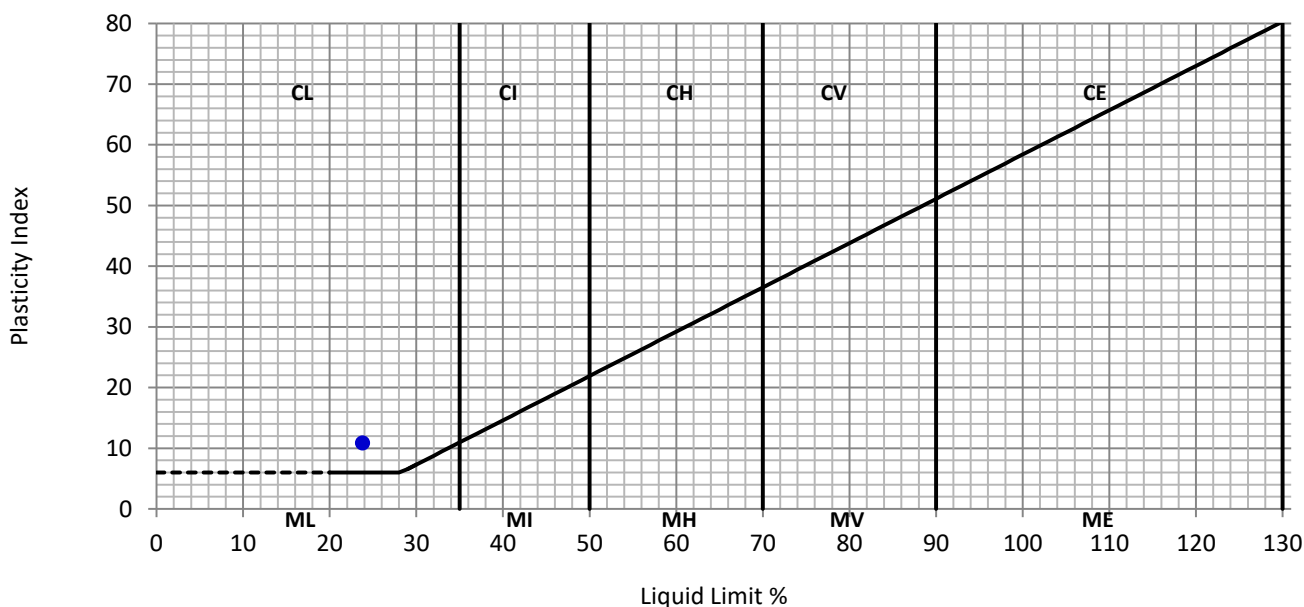
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfedale Road Cardiff CF23 7HA
ATS Sample No:	44604		

Site Ref / Hole ID:	BH104	Depth (m):	5.50
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

Test Results

Liquid Limit	24	%
Plastic Limit	13	%
Plasticity Index	11	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	9 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 3.0



Apex Testing Solutions

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A Grogan

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Date

29/01/2026

Fig.

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TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44605

Site Ref / Hole ID: WS403

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 4.00

Sample Type: Disturbed

Material Description: Reddish brown CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

26.6

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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A Grogan, Laboratory Manager

Date

27/01/2026

Fig

MC

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TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

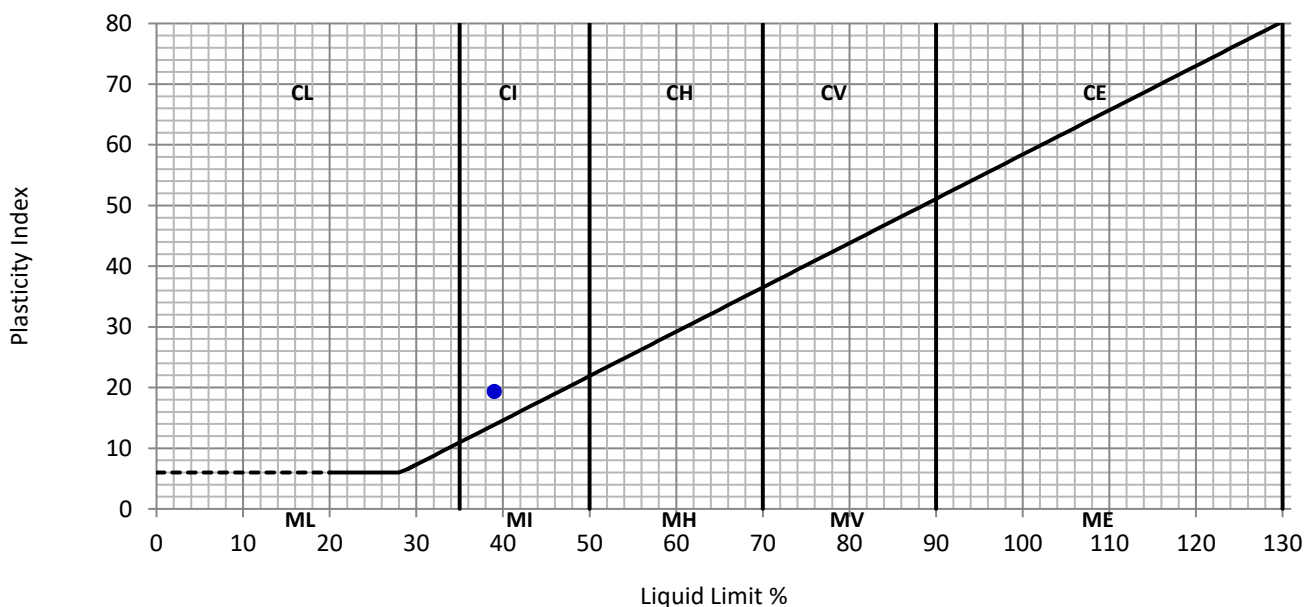
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfedale Road Cardiff CF23 7HA
ATS Sample No:	44605		

Site Ref / Hole ID:	WS403	Depth (m):	4.00
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Reddish brown CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	26 January 2026

Test Results

Liquid Limit	39	%
Plastic Limit	20	%
Plasticity Index	19	%

Preparation:	4.2.3 Natural Specimen
Proportion retained on 425µm sieve:	0 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 3.0



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Date

27/01/2026

Fig.

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TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44606

Site Ref / Hole ID: WS407

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 0.50

Sample Type: Disturbed

Material Description: Brown slightly gravelly
CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

26.3

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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Fig

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TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

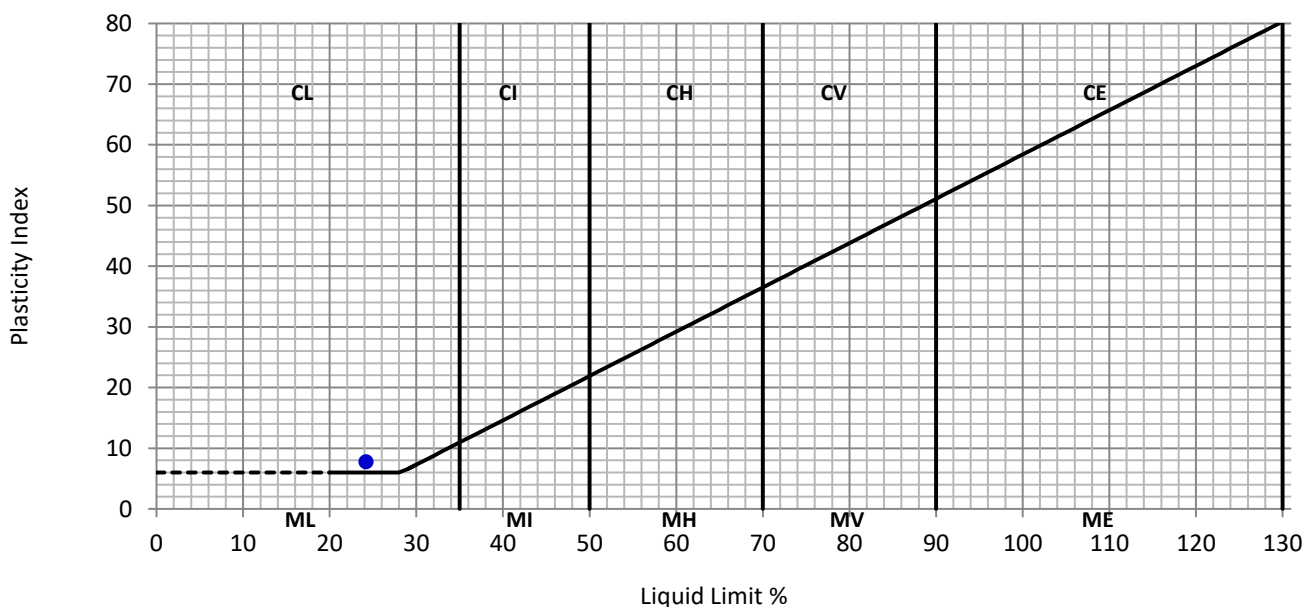
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44606		

Site Ref / Hole ID:	WS407	Depth (m):	0.50
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	28 January 2026

Test Results

Liquid Limit	24	%
Plastic Limit	16	%
Plasticity Index	8	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	10 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 3.0



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Date

29/01/2026

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TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44607

Site Ref / Hole ID: WS408

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 1.50

Sample Type: Disturbed

Material Description: Brown slightly gravelly
slightly sandy CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

17.6

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



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Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

30/01/2026

Fig

MC

DRAFT

TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

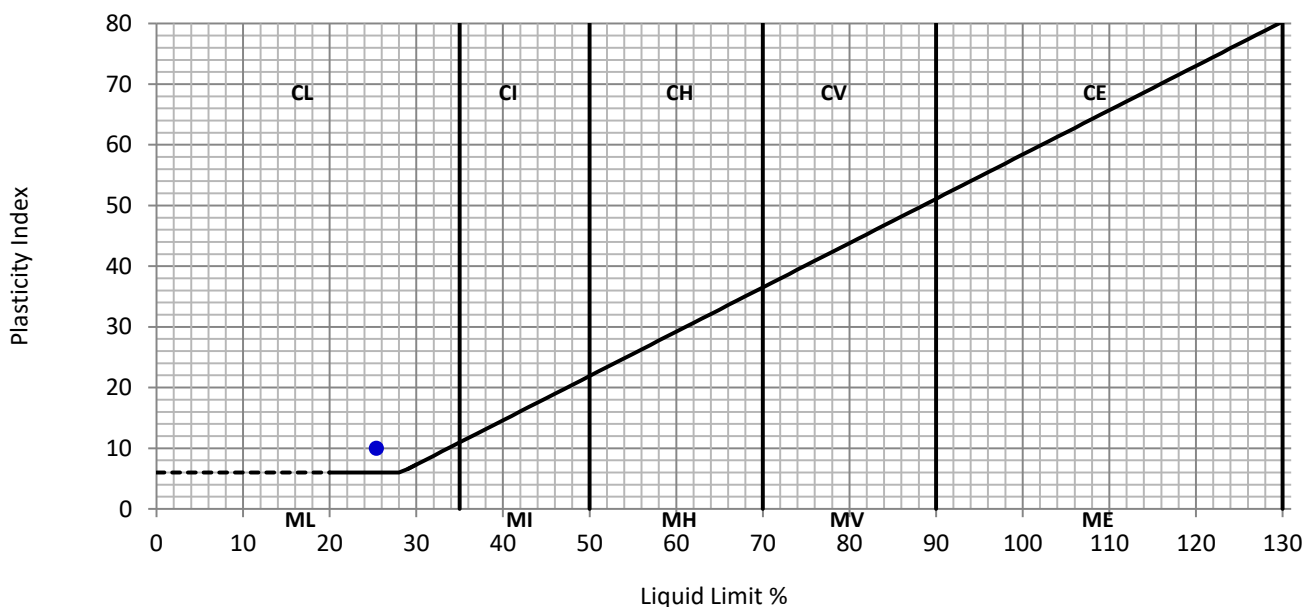
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfedale Road Cardiff CF23 7HA
ATS Sample No:	44607		

Site Ref / Hole ID:	WS408	Depth (m):	1.50
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly slightly sandy CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	29 January 2026

Test Results

Liquid Limit	25	%
Plastic Limit	15	%
Plasticity Index	10	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	10 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 3.0



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est, Pyle,
Bridgend, CF33 6BZ
Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

30/01/2026

Fig.

ATT

DRAFT

TEST REPORT

Determination Of Water Content

ISO 17892-1: 2014 +A1:2022

Project No: D26030

Project Name: TF25-430 Heronsbridge

Client: TFW Group Ltd

Address: 5 Deryn Court
Wharfdale Road
Cardiff
CF23 7HA

ATS Sample No: 44608

Site Ref / Hole ID: WS411

Sample No:

**Sampling Certificate
Received:** No

Depth (m): 0.90

Sample Type: Disturbed

Material Description: Brown slightly gravelly
slightly sandy CLAY

Location in Works: N/a

Material Source: Ex-Site

Date Sampled: Unknown

Material Supplier: Ex-Site

Sampled By: Client

Specification: ISO 17892-1

Date Received: 22 January 2026

Date Tested: 23 January 2026

Test Results

Water Content (%)

14.7

Remarks:

QA Ref.

EN ISO 17892-
1:2014 +A1:2022



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est,
Pyle, Bridgend, CF33 6BZ

Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

30/01/2026

Fig

MC

DRAFT

TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

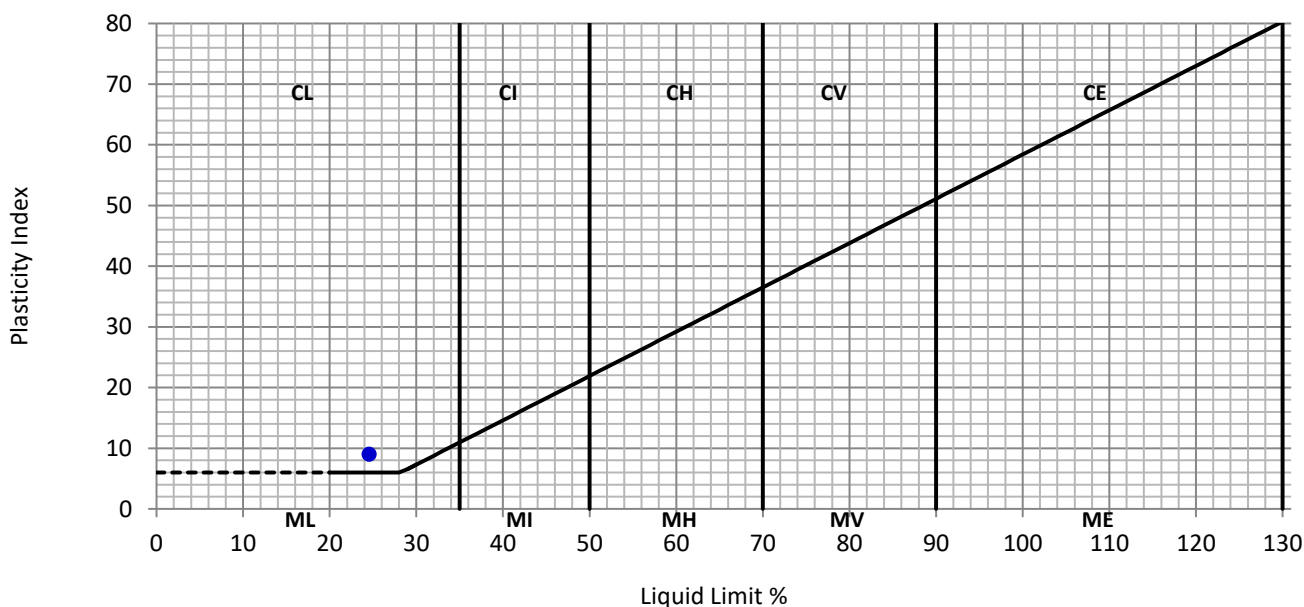
Project No:	D26030	Client:	TFW Group Ltd
Project Name:	TF25-430 Heronsbridge	Address:	5 Deryn Court Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	44608		

Site Ref / Hole ID:	WS411	Depth (m):	0.90
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown slightly gravelly slightly sandy CLAY
Location in Works:	N/a	Material Source:	Ex-Site
Date Sampled:	Unknown	Material Supplier:	Ex-Site
Sampled By:	Client	Specification:	BS1377
Date Received:	22 January 2026	Date Tested:	30 January 2026

Test Results

Liquid Limit	25	%
Plastic Limit	16	%
Plasticity Index	9	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	35 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 3.0



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est, Pyle,
Bridgend, CF33 6BZ
Tel: 01656 746762 Fax: 01656 749096



7771

Approver

A Grogan

A Grogan, Laboratory Manager

Date

30/01/2026

Fig.

ATT



End of Report

Apex Testing Solutions Limited

Sturmi Way
Village Farm Industrial Estate
Pyle
Bridgend
CF33 6BZ

Telephone: 01656 746762

E-mail: andrew.grogan@apex-drilling.com

laura.davies@apex-drilling.com



DRAFT Laboratory Report



Contract Number: 84706

Client Ref: **25-430**
Client PO: **25-430BW**

Date Received: **17-02-2026**
Date Completed: **27-02-2026**
Report Date: **27-02-2026**

Client: **Terrafirma Wales Ltd**

Contract Title: **Heronsbridge**
For the attention of: **Benjamin Walder**

This report has been checked and approved by:

Shaun Jones
Laboratory manager

Description	Qty
Determination of water content BS EN ISO 17892-1:2014 - * UKAS	5
1 point Liquid & Plastic Limit.. BS EN ISO 17892-12 - * UKAS	5

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

Approved Signatories:

Brendan Evans (Business Support Co-ordinator) - Darren Bourne (Quality Senior Technician) - Jason Jenkins (Business Development Manager)
Luke Williams (Senior Laboratory Technician) - Paul Evans (Director) - Richard John (Quality/Technical Manager)
Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Vince Williams (Site Technician)
Wayne Honey (HR & HSE Manager)

WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
BS 1377-2:2022 Clause 5.3
BS EN ISO 17892-12:2018+A2:2022 1 Point Liquid Limit
BS EN ISO 17892-1:2014+A1:2022 Determination of Water Content

Contract Number	84706	
Project Name	Heronsbridge	
Date Tested	24/02/2026	
	DESCRIPTIONS	

[illegible]

Operator

Dean. S

BS 1377-2:2022 Clause 5.3

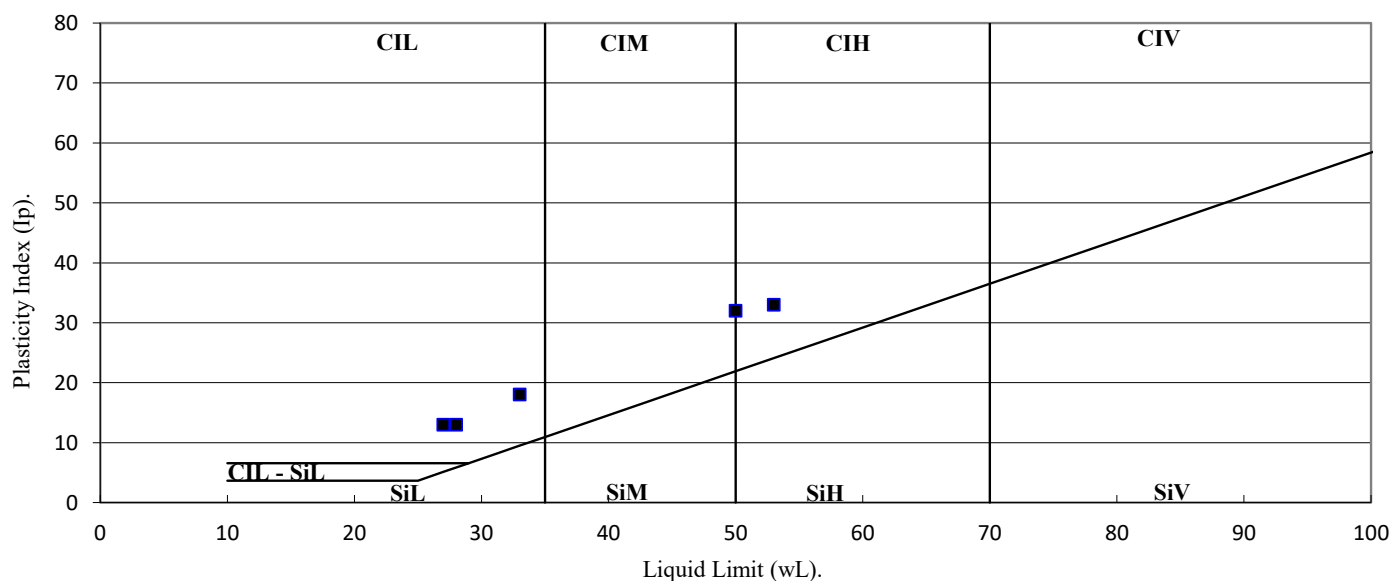
BS EN ISO 17892-12:2018+A2:2022 1 Point Liquid Limit

BS EN ISO 17892-1:2014+A1:2022 Determination of Water Content

[illegible]

PLASTICITY CHART

BS EN ISO 14688-2:2018 Clause 4.4



Operator
Dean. S



DRAFT Laboratory Report



Contract Number: 84845

Client Ref: **TF-25-430**
Client PO: **TF-25-430-CA**

Date Received: **23-02-2026**
Date Completed: **27-02-2026**
Report Date: **27-02-2026**

Client: **Terrafirma Wales Ltd**

This report has been checked and approved by:

Contract Title: **Heronbridge School, Bridgend**
For the attention of: **Florence Linklater**

Shaun Jones
Laboratory manager

Description	Qty
Uniaxial Compressive Strength of Rock inc sample prep 54-165mm diameter cores	10
ISRM Suggested Method for determining uniaxial compressive strength - @ Non Accredited Test	

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

Approved Signatories:

Brendan Evans (Business Support Co-ordinator) - Darren Bourne (Quality Senior Technician) - Jason Jenkins (Business Development Manager)
Luke Williams (Senior Laboratory Technician) - Paul Evans (Director) - Richard John (Quality/Technical Manager)
Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Vince Williams (Site Technician)
Wayne Honey (HR & HSE Manager)

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

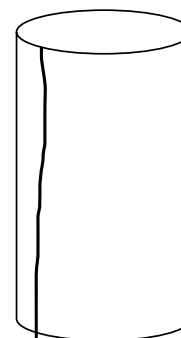
		Contract Number:	84845
		Borehole Number:	BH111
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	21.25
Storage Conditions	As received	Base Depth (m):	21.50
Sample Description	Siltstone rock core	Sample Specific Depth (m)	21.25
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.80
Height - mm:		222.40
Water Content - %:		0.4
Sample Mass - g:		4711.4
Bulk Density - Mg/m ³ :		2.65
Dry Density - Mg/m ³ :		2.64
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		12
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:36
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.46
Strain at Failure - kN:	349.60
Unconfined Compressive Strength - Mpa:	43.8
Mode of Failure:	Single Shear

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

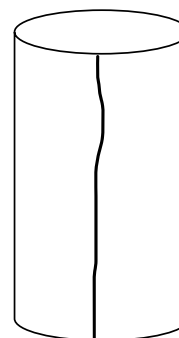
		Contract Number:	84845
		Borehole Number:	BH112
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	8.90
Storage Conditions	As received	Base Depth (m):	9.05
Sample Description	Rock core	Sample Specific Depth (m)	8.90
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.80
Height - mm:		150.80
Water Content - %:		0.4
Sample Mass - g:		3186.1
Bulk Density - Mg/m ³ :		2.65
Dry Density - Mg/m ³ :		2.64
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		12
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:18
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.43
Strain at Failure - kN:	270.20
Unconfined Compressive Strength - Mpa:	33.9
Mode of Failure:	Axial Splitting

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

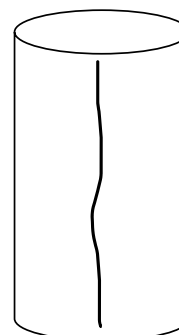
		Contract Number:	84845
		Borehole Number:	BH112
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	14.20
Storage Conditions	As received	Base Depth (m):	14.40
Sample Description	Rock core	Sample Specific Depth (m)	14.20
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.10
Height - mm:		150.90
Water Content - %:		1.2
Sample Mass - g:		3147.5
Bulk Density - Mg/m ³ :		2.65
Dry Density - Mg/m ³ :		2.62
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		32
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	00:21
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.36
Strain at Failure - kN:	59.80
Unconfined Compressive Strength - Mpa:	7.6
Mode of Failure:	Axial Splitting

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

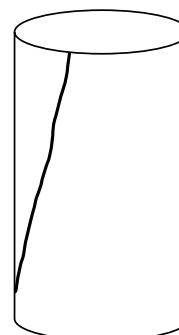
		Contract Number:	84845
		Borehole Number:	BH112
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	21.00
Storage Conditions	As received	Base Depth (m):	21.20
Sample Description	Rock core	Sample Specific Depth (m)	21.00
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		101.70
Height - mm:		156.50
Water Content - %:		1.6
Sample Mass - g:		3263.3
Bulk Density - Mg/m ³ :		2.57
Dry Density - Mg/m ³ :		2.53
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		31
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	00:32
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.44
Strain at Failure - kN:	113.40
Unconfined Compressive Strength - Mpa:	14.0
Mode of Failure:	Single Shear

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

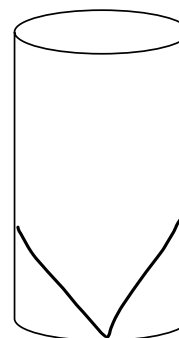
		Contract Number:	84845
		Borehole Number:	BH113
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	18.10
Storage Conditions	As received	Base Depth (m):	18.40
Sample Description	Rock core	Sample Specific Depth (m)	18.10
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.60
Height - mm:		229.60
Water Content - %:		0.6
Sample Mass - g:		4858.2
Bulk Density - Mg/m ³ :		2.66
Dry Density - Mg/m ³ :		2.65
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		18
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	02:06
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.55
Strain at Failure - kN:	546.30
Unconfined Compressive Strength - Mpa:	68.7
Mode of Failure:	Explosive

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

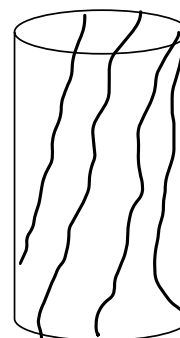
		Contract Number:	84845
		Borehole Number:	BH113
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	21.00
Storage Conditions	As received	Base Depth (m):	21.30
Sample Description	Rock core	Sample Specific Depth (m)	21.00
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.50
Height - mm:		231.00
Water Content - %:		0.5
Sample Mass - g:		4927.5
Bulk Density - Mg/m ³ :		2.69
Dry Density - Mg/m ³ :		2.68
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		17
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:56
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.42
Strain at Failure - kN:	385.30
Unconfined Compressive Strength - Mpa:	48.6
Mode of Failure:	Multiple Fracture

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

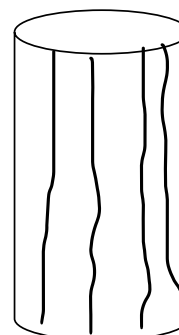
		Contract Number:	84845
		Borehole Number:	BH116
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	24.30
Storage Conditions	As received	Base Depth (m):	24.50
Sample Description	Rock core	Sample Specific Depth (m)	24.30
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.70
Height - mm:		162.00
Water Content - %:		0.2
Sample Mass - g:		3470.3
Bulk Density - Mg/m ³ :		2.69
Dry Density - Mg/m ³ :		2.68
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		7
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:06
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.58
Strain at Failure - kN:	304.70
Unconfined Compressive Strength - Mpa:	38.3
Mode of Failure:	Multiple Fracture

Remarks:

Failure Sketch:



Operator
Emyr. A



Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

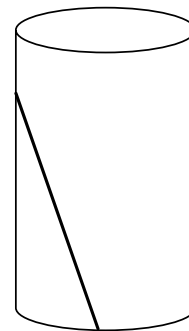
Contract Number:	84845	Project Name	Heronsbridge School, Bridgend	Sample Number:	
Borehole Number:	BH117	Sample Preparation	Cutting and Grinding	Top Depth (m):	20.20
		Storage Conditions	As received	Base Depth (m):	20.30
		Sample Description	Rock core	Sample Specific Depth (m)	20.20
		Sample Date:		Sample Type:	C
		Date of Receipt	23/02/2026		

Specimen Details/Conditions	
Diameter - mm:	970.00
Height - mm:	150.00
Water Content - %:	0.5
Sample Mass - g:	2654.8
Bulk Density - Mg/m ³ :	0.02
Dry Density - Mg/m ³ :	0.02
Height Ratio:	* Sample does not comply with H:D ratio
Degree of Saturation - %:	0
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:09
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.00
Strain at Failure - kN:	134.50
Unconfined Compressive Strength - Mpa:	0.2
Mode of Failure:	Single Shear

Remarks:

Failure Sketch:



Operator

Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

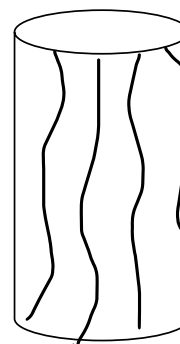
		Contract Number:	84845
		Borehole Number:	BH117
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	25.60
Storage Conditions	As received	Base Depth (m):	26.00
Sample Description	Rock core	Sample Specific Depth (m)	25.60
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions		
Diameter - mm:		100.50
Height - mm:		231.40
Water Content - %:		2.0
Sample Mass - g:		4935.8
Bulk Density - Mg/m ³ :		2.69
Dry Density - Mg/m ³ :		2.64
Height Ratio:	<i>* Sample does not comply with H:D ratio</i>	
Degree of Saturation - %:		58
Assumed Specific Gravity for Degree of Saturation:		2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:42
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.50
Strain at Failure - kN:	407.90
Unconfined Compressive Strength - Mpa:	51.4
Mode of Failure:	Multiple Fracture

Remarks:

Failure Sketch:



Operator
Emyr. A

Determination of Unconfined Compressive Strength
ISRM Suggested Methods
Vol 16, No. 2, pp. 135-140 1979

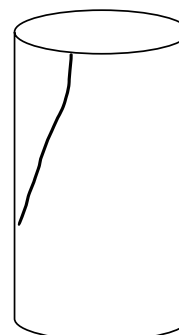
Contract Number:	84845	Borehole Number:	BH118
Project Name	Heronsbridge School, Bridgend	Sample Number:	
Sample Preparation	Cutting and Grinding	Top Depth (m):	21.10
Storage Conditions	As received	Base Depth (m):	20.30
Sample Description	Rock core	Sample Specific Depth (m)	20.10
Sample Date:		Sample Type:	C
Date of Receipt	23/02/2026		

Specimen Details/Conditions	
Diameter - mm:	101.80
Height - mm:	155.40
Water Content - %:	2.1
Sample Mass - g:	3258.3
Bulk Density - Mg/m ³ :	2.58
Dry Density - Mg/m ³ :	2.52
Height Ratio:	* Sample does not comply with H:D ratio
Degree of Saturation - %:	41
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result	
Load Frame/Machine:	CT340
Date of test:	24/02/2026
Test Duration - mins:	01:29
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.20
Strain at Failure - kN:	142.10
Unconfined Compressive Strength - Mpa:	17.5
Mode of Failure:	Single Shear

Remarks:

Failure Sketch:



Operator
Emyr. A

DRAFT

SOUTH WALES GROUND TESTING

LIGHT WEIGHT DEFLECTOMETER TEST

[illegible]

Notes:

Weather Conditions:	Shower
---------------------	--------



SOUTH WALES GROUND TESTING

Approved by :

D. McASh

David McArthur BSc MSc ARSM

Remarks: Test accordance with ASTM 2583 BS 1924-2 (UK)
CBR correlation after Shell 1998

CONTRACT:

Heronbridge School Bridgend

Date:	15.01.26
-------	----------

Sheet 1 of 2

SOUTH WALES GROUND TESTING

LIGHT WEIGHT DEFLECTOMETER TEST

Map view of test locations



South Wales Ground Testing Limited
Unit 25 South Cornelly Trading Estate
Porthcawl Road
Bridgend
CF33 4RE

Company registration number 13687556



**SOUTH WALES
GROUND TESTING**

Approved by : 

David McArthur BSc MSc ARSM

CONTRACT:

Héronsbridge School Bridgend

Date: 15.01.26

Sheet 2 of 2

DRAFT

ANNEX G
Ground Gas Monitoring Results

GAS MONITORING

HERONSBRIDGE

25-430

Date	26/01/2026					
AP	994 mb					
	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/s)
WS 401	19.7	0.5	0.1	0	0	-0.1
WS 402	18.2	1.7	0.1	0	0	0.0
WS 403	17.8	1.8	0.0	0	0	-0.1
WS 404	17.9	1.7	0.0	0	0	-0.1
WS 405	19.8	0.7	0.0	0	0	-0.1
WS 406	19.7	0.5	0.0	0	0	0.0

Date	10/02/2026					
AP	980					
	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/s)
WS 401	17.6	4.2	0.2	0	0	-0.1
WS 402	17.7	2.4	0.2	0	0	-0.1
WS 403	19.4	2.0	0.1	0	0	0.0
WS 404	20.5	0.2	0.0	0	0	-0.1
WS 405	20.0	0.2	0.0	0	0	0.0
WS 406	20.0	0.2	0.0	0	0	0.1

Date						
AP						
	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/s)
WS 401						
WS 402						
WS 403						
WS 404						
WS 405						
WS 406						

Date						
AP						
	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/s)
WS 401						
WS 402						
WS 403						
WS 404						
WS 405						
WS 406						

Date						
AP						
	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/s)
WS 401						
WS 402						
WS 403						
WS 404						
WS 405						
WS 406						

Date						
AP						
	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Flow (l/s)
WS 401						
WS 402						
WS 403						
WS 404						
WS 405						
WS 406						

ANNEX H
Risk Assessment Definitions



Risk Assessment Definitions

The contaminated land regime is set out in Part 2A of the Environmental Protection Act (EPA) 1990 and was introduced on the 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th July 2000.

Part 2A was introduced to achieve three overarching objectives:

- (a) To identify and remove unacceptable risks to human health and the environment.
- (b) To seek to ensure that contaminated land is made suitable for its current use.
- (c) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under Part 2A the statutory definition of 'contaminated land' is:

"any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason of substances in, on, or under the land, that:

- (a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
- (b) Pollution of controlled waters is being, or is likely to be, caused."

Under Part 2A, for land to be classified as 'Contaminated Land' there must be one or more contaminant, pathway, receptor linkages, known as the '**Contaminant Linkage**'. A contaminant linkage requires three essential elements:

- (a) A **CONTAMINANT** (SOURCE) – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
- (b) A **RECEPTOR** – something which could be adversely affected by a contaminant.
- (c) A **PATHWAY** – a route by which a receptor is or might be exposed to or affected by a contaminant.

Guidance provided by the Environment Agency to aid in managing risks from land contamination (Land Contamination Risk Management - LCRM), defines a 'Hazard' as:

'Hazard – a property or situation that in particular circumstances could lead to harm'

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is also given in LCRM guidance:

'Risk – a combination of the probability, or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'.

A framework for qualitative risk assessment is provided in CIRIA publication C552 Contaminated Land Risk Assessment – A Guide to Good Practice (2001). The method requires an assessment of the magnitude of the probability of the risk occurring and the magnitude of the potential consequence. Classifications of consequences and probability, levels and descriptions of risk have been devised from the above publication and are defined in the following sections.



Classification of Consequence

Table A Classification of Consequence	
Classification	Definition
Severe	• Short term (acute) risk to human health likely to result in significant harm. • Short term risk to controlled waters. • Catastrophic damage to buildings/structures. • Short term risk to an ecosystem or organism within the particular ecosystem.
Medium	• Chronic damage to human health (long term risk). • Pollution of a sensitive water resource. • A significant change in an ecosystem or organism within the ecosystem.
Mild	• Pollution of non-sensitive water resources. • Significant damage to buildings/structures. • Damage to sensitive buildings/structure/services or the environment.
Negligible	• Harm (not necessarily significant) which may result in financial loss. • Non-permanent health effects to humans (easily prevented by PPE for example). • Easily repairable effects of structural (building) damage.

Classification of Probability

Table B Classification of Probability	
Classification	Definition
High Likelihood	• There is a complete contaminant linkage and an event appears very likely to occur in the short term and is inevitable in the long term. • Evidence of harm to the receptor.
Likely	• There is a complete contaminant linkage which means that it is probable that an event will occur. • The event is not inevitable but possible in short term and likely in the long term.
Low Likelihood	• There is a complete contaminant linkage and circumstances are possible under which an event could occur. • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term.
Unlikely	• There is a complete contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.

Risk Assessment Matrix

By comparing the consequences of a risk and the probability of the risk of a contaminant linkage, the likely risk category can be determined as shown in **Table C** below.

Table C Risk Assessment Matrix					
Increasing acceptability ↘		Consequence			
		Severe	Medium	Mild	Negligible
Probability	High Likelihood	High risk	High risk	Medium risk	Low risk
	Likely	High risk	Medium risk	Low risk	Near zero risk
	Low Likelihood	Medium risk	Low risk	Low risk	Near zero risk
	Unlikely	Low risk	Near zero risk	Near zero risk	Near zero risk

Description of Risks and Likely Actions

High Risk

There is a high probability that severe harm could arise to a receptor, or there is evidence that a receptor is currently being severely harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

Medium Risk

It is probable that harm will arise to a receptor. However, it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

Low Risk

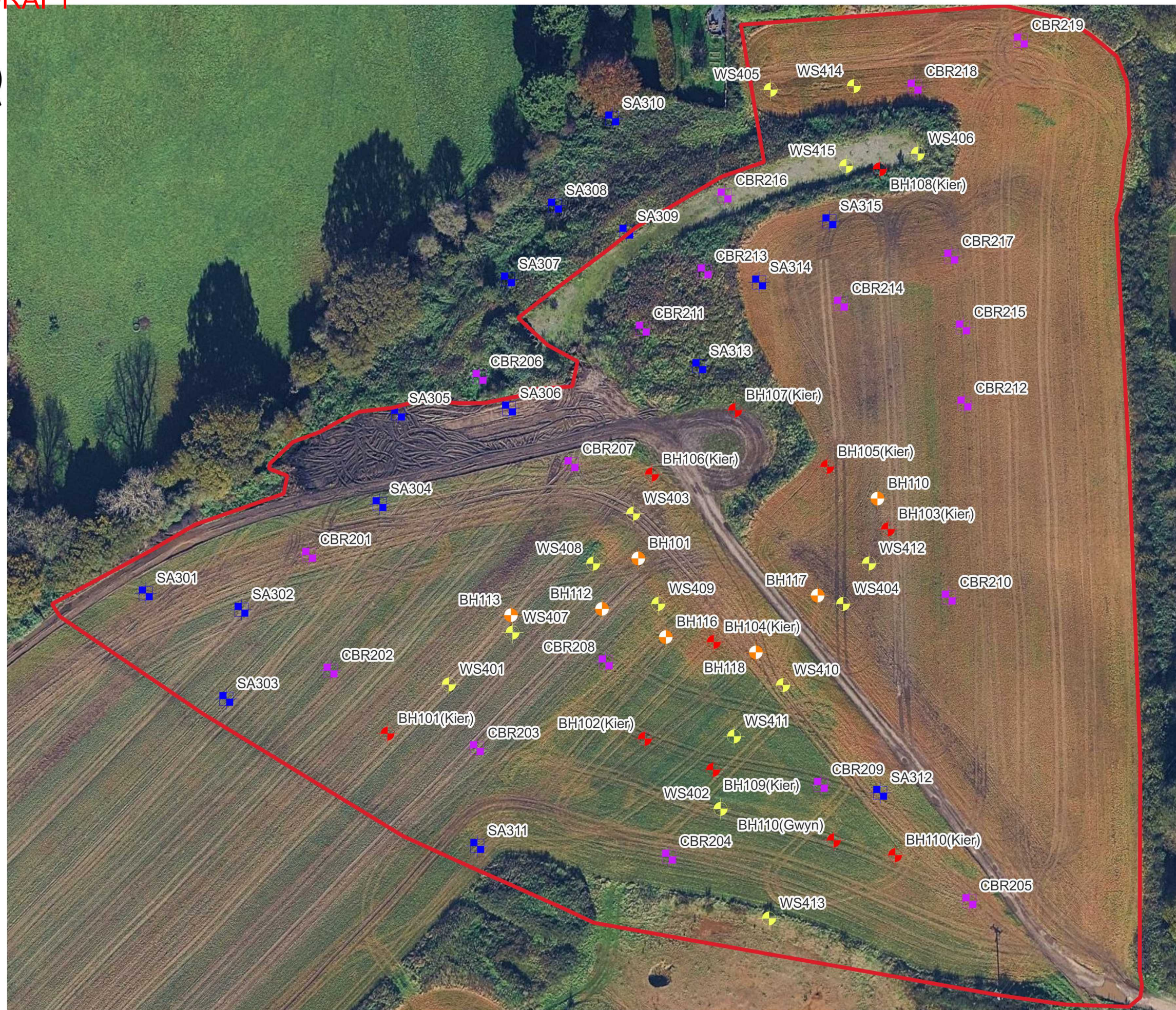
It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

Near Zero Risk

There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.

DRAWINGS

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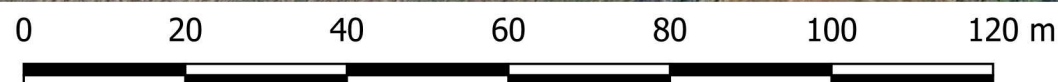


- 25-430
25-430-SiteOutline —
Additional Boreholes —
All Locations 25-430
WS —
BH —
SA —
CBR —

PROJECT:
TF25-430-CA - Herronsbridge School

DRAWING 01:
Herronsbridge All Locations

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