

Growing Baldock

Environmental Statement Volume 2: Figures & Appendices

Chapter 12: Ground Conditions and Soils

Appendix 12.2 Ground Investigation Interpretive Report BA1 Area



SHADBOLT
ENVIRONMENTAL



Baldock, North Hertfordshire

Ground Investigation Interpretive Report –
BA1 Area

Urban and Civic

Issue V2

February 2025



SHADBOLT
GROUP

Baldock, North Hertfordshire

Ground Investigation Interpretive Report – BA1 Area

Project Reference: 2899

Client	Urban and Civic
Our Reference	2899 – Baldock, North Hertfordshire
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1.0 INTRODUCTION

Shadbolt Group (SG) were commissioned by Urban and Civic to undertake an intrusive ground investigation on the site in Baldock, North Hertfordshire. The current report considers the area BA1 which is a part of the wider development and is located at the northern end of the proposed Baldock development area. The investigation on the current area (BA1) was carried out under the supervision of SG, with site works carried out in phases between November 2023 and May 2024.

This report provides an assessment of the ground conditions encountered during the ground investigation and is a development on assessments based on information presented in a Preliminary Risk Assessment undertaken as part of area that is referred to as Baldock, North Hertfordshire by SG (Ref: 2899 – Baldock North Hertfordshire, Preliminary Risk Assessment, Issue V1, July 2022).

For the purposes of this ground investigation report “The Site” refers to area that can be seen outlined in red in Figure 2 below.

1.1 Aims and Objectives

The purpose of the investigation was to determine the existing geotechnical and geochemical ground conditions relating to artificial ground (if encountered) and underlying natural ground conditions and past uses of the site which may provide constraints to a potential future development.

1.2 Proposed Development

At this stage it is understood that the proposed development has not been finalised however we understand that the development will comprise predominantly residential housing along with a school and associated infrastructure, public open space, vehicular access and nature conservation.

1.3 Scope of Works

The works undertaken by SG to date comprise:

- Rotary boreholes.
- Windowless sample boreholes.
- Trial pitting.
- In-situ testing with the above exploratory borehole (SPTs).
- In-situ determination of CBR using TRL DCP testing.
- Infiltration testing within selected exploratory trial pits.
- Geotechnical Laboratory testing.
- Chemical laboratory testing.
- Contamination risk assessment.
- Ground gas and groundwater monitoring.

1.4 Limitations

The information presented in this report comprises data on the strata observed in the excavations and the results of the site and laboratory tests as detailed within the report. Shadbolt Group take no responsibility for ground conditions which occur between the exploratory hole positions.

Every effort has been made to interpret the conditions between investigation locations; however, such information is indicative. A detailed review of the extent of limitations of this report is included in the **Report Conditions** included in **Appendix A** and the standard terms and conditions of the agreement.

The exploratory hole locations were carried out on a grid of spacing between 50m (proposed residential areas) to 75m (soft landscaping areas) across the site. Two areas are currently utilised as horse paddocks (indicated on Fig 2 below) and no access was available into these areas during the investigations.

The proposed locations were set out by SG utilising a GPS unit with the exact location positioned as near as possible to the proposed location taking into account access requirements (e.g. level surfacing for safe rig set up), services (mapped and unmapped identified by visual inspection and CAT signal), ecological constraints and in some areas the position of proposed archaeological excavations on site.

2.0 SITE INFORMATION

2.1 General

The site is east of the Town of Baldock, in North Hertfordshire. The site is approximately 24km southeast of Bedford. The site is irregularly shaped in plan and has an area of approximately 135ha.

The approximate National Grid References (NGR) for the centre of the site is **TL 25303 34864**. A general site location plan of the site is shown in Figure 1 and an aerial photograph in Figure 2.

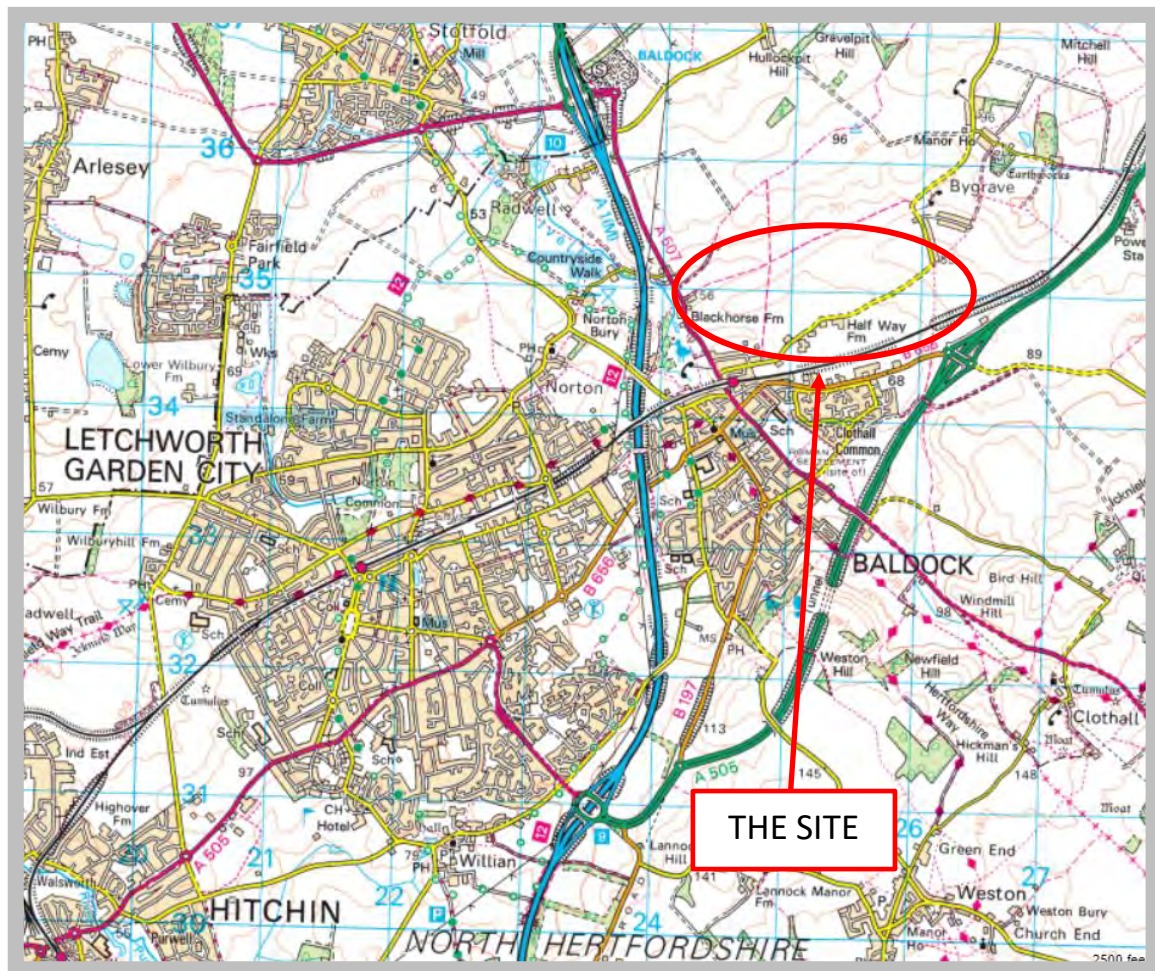


Fig. 1 – General Site Location Plan

2.2 Site Description

An initial site reconnaissance visit was undertaken in June 2022.

The site is an irregularly shaped parcel of land located east of the town centre of Baldock, approximately 23km northwest of the county town of Hertford. It comprises predominantly of agricultural land and was used as pasture/cropped with barley at the time of the initial walkover.

The topography is relatively flat. The site is split by wire fencing and vegetated by trees, hedges, and non-invasive plants, including brambles, nettles, and false oat grass.

The surrounding area is comprised of agricultural land to the north, east and south areas. Directly west from the site boundary are residential dwellings, and further west of this is the town of Baldock. The A1 (M) passes through the western parts of Baldock heading north separating the residential area of Baldock and the industrial area of Letchworth. To the east of the site boundary is the A505 dual carriageway road leading northeast.

No obvious olfactory or visual evidence of significant contamination was noted during site reconnaissance.

During the works in March 2024 no significant changes to the site reconnaissance which would alter the conclusion of the previous PRA report were noted during the recent fieldworks.



Fig.2 – Aerial Photograph Showing the Development Area in red (approximate). The areas show with purple hatching were inaccessibility due to tenancy restriction.

3.0 HISTORICAL LAND USE

A phase 1 desk study was undertaken for the larger Baldock development area including the site in July 2022 by SG prior to undertaking intrusive investigations. A full description of the site history and documented geo environmental conditions were discussed in the document, referenced as follows:

2899 – Baldock North Hertfordshire, Preliminary Risk Assessment, Issue V1, July 2022 by Shadbolt Group.

The history of the site is summarised thus:

“The earliest attainable records show the site has remained as predominantly agricultural land, with associating farming building throughout its mapped history. The site has a history of allowing sections of the land to be accessible to the public with several public footpaths established. Local roads have been developed within the site, for example Bygrave Road, for farming relating access. However, some main roads have been marked on the map, for example southeast of the site is the Roman Road (Clothall Road) and Warren Lane leading east. Roman Road also intersects the site boundary in the northwest of the site. Ashwell Road and Royston Road cuts though the northeast areas of the site. In addition, the national railway line passes through the central part of the site.

The surrounding around predominantly started off as agricultural land, with smaller villages around the areas, including the town of Baldock. However, throughout the mapped history, the surrounding areas have gradually developed from both residential and industrial development. From Late 1800s to early 1900s the land relied on chalk related industries with several chalk pits marked around the surrounding areas of the site. However, 1920s onwards, the town of Baldock has expansion steadily with factories and warehouse development in Letchworth area. The chalk pits have closed due to this expansion and allowing for residential expansion in the town of Baldock to increase.”

4.0 PREVIOUS INVESTIGATIONS

SG have not had sight of any previous reports/investigations undertaken at the site other than the PRA report carried out by SG described above.

There are 107 No. shallow borehole records within 250m of the site. Approximately 48 No. records are relating to the A505 Baldock Bypass located adjacent to the site.

The strata mainly comprise topsoil overlying hard fissure chalk. The hard chalk reached at approximately 3m.

Examples of logs are included within the associated PRA report.

5.0 SITE INVESTIGATION

5.1 Proposed Development

The proposals at the site are for a development comprising predominantly residential housing and a school with associated infrastructure, public open space, vehicular access, and nature conservation.

5.2 Scope of Investigation

The site works comprised the following:

- 25 No. rotary boreholes to a maximum depth of 9.50m bgl.
- 122 No. machine dug trial pits/trial trenches to a maximum depth of 3.00m bgl.
- 48 No. windowless sample boreholes drilled to a maximum depth of 4.45m bgl.
- DCP Testing utilising the TRL Apparatus
- Appropriate sample retrieval.
- Geotechnical laboratory testing and analysis.
- Geochemical laboratory testing and analysis.
- 44 No. groundwater / ground gas monitoring wells
- 13 round gas and groundwater monitoring visits.

A total of 195 No. exploratory holes have been undertaken as part of this investigation. These comprise a general site investigation across the site along with targeted site investigations for several options of the proposed bridges across the existing railway, the data (logs and laboratory testing) from which has been incorporated into this ground investigation report for the BA1 area.

A plan showing the approximate location of the exploratory holes and the extent of the areas of investigation are presented as a drawing **2899-003(BA1) - Exploratory Hole Location Plan** in **Appendix B**.

The exploratory logs are included in **Appendix B**.

The soils encountered during this investigation have been logged in accordance with BS5930:2015+A1:2020 "Code of Practice for Site Investigation". During excavation, representative samples were taken at regular intervals from the exploratory holes to assist in the identification of the soils and allow selected geotechnical and geochemical testing to be programmed.

5.3 In-Situ Testing

Hand Shear Vane (HSV) tests and Standard Penetration Tests (SPT) were undertaken in suitable deposits during the siteworks. Results of the in-situ testing are presented on the relevant exploratory hole logs included in **Appendix B**.

SPT testing was conducted with the window samples and within the rotaries at shallow depth only. As is noted regarding the SPT testing in CIRIA C574 Section 9.7.1 that "Therefore it cannot be expected to yield good predictions of the engineering behaviour of chalk, even when used with care. When the SPT is performed in chalk, the split spoon should always be used. As carrying out a test between core runs can jeopardise the quality of the core immediately beneath the test, it should not be undertaken if the quality of the core is of greater importance than the SPT result."

5.4 Geotechnical Laboratory Testing

Selected samples were submitted to our nominated geotechnical testing laboratory. Laboratory testing included Atterberg limits, Particle Sieve Distribution (PSD) 4.5kg Compaction testing and Californian Bearing Ratio (CBRs) testing, Saturation Moisture Contents and Intact Dry Density (IDD) of chalk and point load testing of rock core. Samples scheduled for geotechnical testing were delivered to the selected UKAS accredited laboratory (i2 Analytical Limited, 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, WD18 8YS, UKAS No. 4041) where testing was carried out in accordance with BS 1377:1990 "Methods of Test for Soils for Civil Engineering Purposes" and any relevant updates to parts.

The results of geotechnical testing are presented in **Appendix E**.

5.5 Chemical Laboratory Testing

A programme of chemical laboratory analysis was scheduled by SG to determine the concentrations of potential contaminants which may be present within the soils encountered at the site. The selected samples were submitted to selected UKAS accredited laboratories (i2 Analytical Limited, 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, WD18 8YS, UKAS No. 4041).

103 No. soil samples were tested for a range of determinants including heavy and phytotoxic metals, metalloids, inorganic and organic contaminants. 80 No. samples were also screened for the presence of asbestos.

The results of the chemical analysis undertaken were compared to the **Shadbolt Group in house Tier 1 Screening Values (TSV) for Residential with Consumption of Home Grown Fruit and Vegetable**. A copy of the Tier 1 TSV are presented in **Appendix C**. The results of the laboratory contamination testing are presented in **Appendix D**.

5.6 Groundwater and Gas Monitoring

44 No. monitoring wells were installed as part of the recent works. Due to the phased nature of the works a total of 13 No. monitoring visits have now been undertaken, equating to 6 No. visits for each monitoring station over a period of circa 3 months in accordance with CIRIA guidance. An assessment of the data has been carried out to provide a ground gas risk assessment.

The monitoring procedure comprised the following measurements:

- Atmospheric temperature, pressure and ambient oxygen, methane and carbon dioxide concentrations on site immediately prior to and on completion of monitoring
- Emission (flow) rate
- Methane, oxygen and carbon dioxide concentrations using a GasData infra-red landfill gas analyser
- Standing water level using a dip meter.

Ground gas monitoring results are presented in **Appendix F**.

5.7 Limitations

It should be noted that although every effort has been made to ensure the accuracy of the data obtained from the investigation, the possibility exists of variations in ground and groundwater conditions between and around the exploratory hole locations; additionally, groundwater levels and ground gas concentrations will vary seasonally and with changes in weather conditions.

Exploratory positions were placed within the available accessible areas where it was deemed safe to excavate with reference to the service plans, ecological constraints, previous and proposed archaeological work and CAT/Genny scanning mean there remains the potential for variation in ground conditions, and/or potentially for unidentified contamination not encountered within this investigation.

6.0 GROUND CONDITIONS

Reference should be made to the individual exploratory hole logs presented in **Appendix B** for detailed descriptions of strata encountered at each location. However, the following ground conditions have been typically encountered across the site (except for the below any existing structures or areas of hardstanding).

6.1 Topsoil

Topsoil was encountered in all 177 No. exploratory holes across the site. The topsoil encountered from ground level to between 0.10m and 0.40m bgl more typically in the range of 0.30m bgl. The topsoil was generally described as Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel includes angular to sub angular fine to coarse chalk, flint and chert.

6.2 Made Ground

No Made Ground was encountered in any of the 177 No. exploratory holes across the site.

6.3 Superficial Deposits

Superficial Deposits were recorded in 8 No. exploratory holes, majority located in the northern regions of the site. The superficial deposits comprised cohesive material of firm to stiff friable grey mottled brown slightly sandy slightly gravelly CLAY and were encountered between 0.30m bgl and 2.40m bgl (maximum drill depth). Clays generally increased in stiffness with depth and became more grey as strata became less weathered losing the brown mottling characteristic of weathered clay. Gravel fractions predominately comprising fine to coarse chalk, chert, flint and limestone with a generally low cobble content.

6.4 Solid Deposits

Bedrock deposits of Chalk were encountered in all 177 No. exploratory holes across the site from depths of 0.3m bgl –immediately beneath Topsoil.

The Chalk strata initially comprised Structureless Chalk of white mottled orange brown silty GRAVEL/gravelly SILT.

Localised loose orange brown mottled white SAND and GRAVEL of chalk and flint was encountered directly below the Topsoil and up to a maximum depth of 4.45m. Given the general lack of other superficial deposits across the site and the predominance of chalk as the gravel fraction these soils are considered to be heavily weathered chalk as opposed to superficial deposits.

Structured Chalk was encountered from depth of between 0.30m and 2.60m depth bgl (more typically 1.00m to 2.00m bgl) and comprised extremely weak to weak low locally medium density Chalk. The Chalk strata was generally excavated to a depth of 3.00m without significant obstruction and recovered as angular fine to coarse gravel with light orange brown silty matrix typically becoming coarser with cobbles and lower matrix content at depth. The shallow structured chalk was typically considered to be of Grade B/C.

At depth the chalk typically comprised white, off white and cream locally mottled orange brown and speckled black extremely weak to very weak low to medium, locally high-density CHALK with very closely to medium spaced horizontal (bedding) and steeply inclined / vertical fractures. The fractures were typically undulating rough to smooth, planar and stepped tight clean with grey, brown and orange brown staining and black speckling but were locally up to moderately open with silty fine gravel infill.

At depths of between c.8m and 13.70m light brown / cream sandy (gritty) extremely to very weak low to medium density CHALK with wispy marl seams locally with a shaley texture and typically more closely spacing bedding fractures (locally with silty infill) was encountered and extended to the base of the deeper boreholes.

The fractures, particularly those that are steeply inclined resulted in a heavy degree of disturbance along the fracture line resulting in some of the core lengths to disintegrate into fine to coarse gravel sized fragments. Such shattering of the core result can in some lengths of competent rock being recovered as non-intact core and can result in low SCR and RQD quotients, potentially not representative of the true rock mass properties. In addition, such fracturing can obscure other fractures or stratigraphic features.

The chalk grade ranged from A3 to C5, however it is considered that the disturbance due to the inclined fractures can result in an underestimate of chalk grade.

The base of the Chalk strata was not encountered within any of the exploratory holes the maximum depth of which was 15.50m bgl.

6.5 Groundwater

Significant groundwater was encountered in 4No. exploratory holes during the ground investigation TP-096 (3.00m bgl), TP-097 (2.00m bgl), TP-098 (2.70m bgl) and WS-37 (2.00M bgl), all of which were located in the northwest area of the site.

Groundwater has also been reported during return monitoring visits in 1 No. exploratory hole (WS-37) ranging from 2.05m to 2.27m during the last 3 No. visits.

It should be noted that groundwater levels will vary seasonally - this assessment will be reviewed upon completion of monitoring.

Gas and groundwater monitoring results are presented in **Appendix F**.

6.6 Ground Obstructions

No obstructions were noted during the investigation with the exception of shallow rockhead.

6.7 Observed Contamination

There was no evidence (visual / olfactory) of contamination noted during the site investigation. The presence of further contaminants cannot be ruled out given the site's history of farming activities and following the results of chemical testing.

The results of the chemical analysis carried out on samples obtained from the site are discussed in **Section 7.4**.

6.8 Geotechnical Testing

The following in-situ and laboratory geotechnical testing has been undertaken for the site.

Method	Strata	Parameter	Comments
CBR (Laboratory Remoulded)	Chalk (0.40-1.40m)	Indicated CBR value of Chalk is <1% to 61%	Lab remoulded CBR tests indicate CBR of <1% to 61% (Based upon the SPTs values and in-situ description this is considered to be an underestimate of the in-situ CBR value. Further testing is outstanding.)
CBR (In-situ TRL DCP Testing)	Chalk (From Surface to c.1.0m)	Indicated CBR value below Topsoil (c.0.30m depth) of 4% to >100%.	Equilibrium CBR of 2% at 0.30m depth below Topsoil should be assumed for initial design. Due to quick deterioration of chalk in inclement weather confirmatory testing should be carried out immediately prior to placement of stone/hardstanding.
Atterberg Limits (N/A)	Superficial (Clay) Superficial (Clayey Sand/sandy Clay) Chalk	Modified PI = 110-33 Modified PI = 1.4-4.8 Modified PI = 1-9	Clay – Low to Medium Shrinkage Borderline Sand – Non-Plastic Chalk – Non-Plastic
Standard Penetration Test	Chalk 1.00m to 4.00m	SPT 'N-Values' in range N=3 to N=93 (Average N=34)	No correlations relating SPTs to chalk parameters or classifications.
Chalk Crush Value	Natural Chalk Strata 1.10m to 3.50m	Material Greater than 10mm = 12% to 99% (Average 40.2%) Moisture Content = 15% to 31% (Average 22.6%) Saturated Moisture Content = 11% to 32% (Average 23.5%) Chalk Crushing Value = 1.8 to 3.3 (Average 2.9)	Materials classified as Chalk Class A to D but predominantly B/C according to HA44/91
Intact Dry Density	Chalk 0.40m to 15.42m	Intact Dry Density = 1.32Mg/m ³ to 2.12Mg/m ³ (Average = 1.70 Mg/m ³)	Chalk is typically classified as Low locally Medium/High density.

Point Load Tests	Chalk 1.30m to 15.42m	Rock strength = 0.11MPa to 1.19MPa (Average = 0.38MPa)	Chalk is typically classified as extremely weak to very weak.
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A number of test results from the more recent works is still outstanding and the report will be updated following receipt of the outstanding results.

7.0 GROUND CONTAMINATION ASSESSMENT

7.1 Legislation

Part IIA of the Environmental Protection Act 1990 provides for the control of specific threats to health or the environment from existing land contamination. In accordance with the Act, the statutory guidance document, and The Contaminated Land (England) Regulations 2000, the definition of contaminated land is intended to embody the concept of risk assessment. Therefore, land is only “contaminated land” where it appears to the regulatory authority, by reason of substances within, on, or under the land that:

Significant harm is being caused, or there is significant possibility of such harm being caused; or

Pollution of controlled waters is being, or is likely to be, caused.

The guidance defines “risk” as the combination of:

Probability, or frequency, of occurrence of a defined hazard (for example, exposure of a property to a substance with the potential to cause harm); and

Magnitude (including the seriousness) of the consequences.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all the following elements must be present:

Source, i.e. a substance that is capable of causing pollution or harm.

Receptor (or target), i.e. something which could be adversely affected by the contaminant; and

Pathway, i.e. a route by which the contaminant can reach the receptor.

If one of these elements is missing (source, pathway, or receptor) there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

7.2 Assessment Methodology

To assess the environmental risk posed by potential contaminants within the underlying soils to human health and controlled waters, Shadbolt Group undertook an initial screen of the laboratory results using Shadbolt Group Tier 1 Screening Values (TSVs). This screening was undertaken using TSVs derived for the and proposed **RESIDENTIAL WITH HOME GROWN PRODUCE** end use.

Contaminant concentrations below the TSVs are considered not to warrant further risk assessment. Concentrations of potential contaminants above the TSVs require further consideration of the potential pollutant linkages.

It should be noted that exceedance of the TSVs does not necessarily require that the site be remediated.

7.3 Derivation of Soils SSVs

A discussion on the development of **Shadbolt** TSVs is presented, along with the relevant values at the time of writing in **Appendix C**.

7.4 Soil Contamination Assessment

In total 103 No. soil samples from the ground investigation, were submitted from for testing against a suite of common contaminants and asbestos screening. The laboratory chemical results have been compared to the **Shadbolt Group Tier 1 TSVs** for a **RESIDENTIAL with Home Grown Produce** end use as this represents the most sensitive end-use receptor and materials may be moved between parcels as part of any remediation and/or earthworks phases.

103 No. samples were tested for Total Petroleum Hydrocarbons (TPH), of these, the majority of which reported concentrations of TPH below the laboratory detection limit of 10mg/kg. 10 No. samples reported measurable concentrations of between 11mg/kg and 26mg/kg within exploratory locations TP-033 at 0.10-0.15, TP-47 at 0.10-0.15m, TP-072 at 0.10-0.15, TP-073 at 0.10-0.15, TP-076 at 0.10-0.15, TP-079 at 0.10-0.15, TP-128 at 0.15m, WS-11 at 0.10-0.15, WS-16 at 0.20m, and WS-R5-03 at 0.50-0.60m. These samples were scheduled for additional TPH CWG testing. The speciated TPH CWG results indicated none of the aliphatic/aromatic hydrocarbon bands above the relevant threshold.

The reported speciated PAH concentrations were below their respective assessment criteria for all samples except the concentration of lead within WS-10 at 0.05m depth. This indicated an elevated concentration of the **Lead** which reported an elevated concentration of 280mg/kg when compared to the Shadbolt TSV assessment criteria of 200mg/kg.

Exploratory Position	Depth (m)	Strata Type	Determinand	Threshold	Recorded Concentration
WS-10	0.05	Topsoil	Lead	200mg/kg	280mg/kg

Table 7.4.2 – Summary of Elevated Concentrations

The area is utilised as agricultural farmland (mixed pasture and arable land) with no visual or olfactory evidence of contamination or odours encountered during the investigation. As such scheduling for more specialised contaminants such as PFAS, PCBs, or Volatiles was not deemed warranted at this time. Should further evidence of contamination be uncovered during the site strip further testing including for a broader range of potential contaminants may be required.

Concentrations of other contaminants scheduled were reported to be within their respective assessment criteria.

80 No. samples were also scheduled for qualitative Asbestos analysis. **No samples reported the presence of asbestos.**

7.4.1 Soils Statistical Assessment

Statistical analysis was carried out on all 103 No. samples for those contaminants with reported elevated concentration of lead.

Analysis was undertaken utilising ESI Ltd.'s Soils and Groundwater Statistics Calculator which is based on CIEH/CL:AIRE document Guidance on Comparing Soil Contamination Data with a Critical Concentration (2008).

Analysis was carried out on samples grouped by soil type, Topsoil (86 No.) and Natural Superficial (Sand and Clay) and Chalk Materials (17 No.). As elevated concentration were only noted within the Topsoil samples and the concentrations were below the level of detection (<0.05mg/kg) and well below the relevant thresholds in the natural soils samples statistical analysis was not deemed necessary for the natural chalk soil data set.

The outcomes of the statistical analysis are summarised in Table 7.4.1.1 below.

Contaminant	SG TSV (mg/kg)	Material	U95% (mg/kg)	Hotspots Removed	Evidence Level	Acceptable?
Lead (outlier not removed)	200	Topsoil	45.024	No	100%	Yes
Lead (outlier removed)	200	Topsoil	42.26	Yes	100%	Yes

Table 7.4.1.1 – Summary of Statistical Analysis

The statistical analysis indicates that the calculated UCL 95% mean for lead fall below the relevant thresholds. However, although the calculated UCL 95% calculated mean is below the relevant threshold for the identified lead, the elevated concentration of lead reported in the sample submitted for analysis are identified as a statistical outlier.

This indicates that the Topsoil materials around the statistical outlier identified with respect to lead determinands removed as a hotspot as a precautionary measure, the Topsoil is suitable for use in the proposed development within Public Open space.

An area of Topsoil (approximately 10m x 10m) around the identified elevated Lead concentrations (WS-10) should be removed at the outset of groundworks and stockpiled separately for further analysis.

Subject to the findings of the analysis, the Topsoil may be suitable for reuse in Public Open Space areas or may be removed to tip. However, this will attract hazardous waste disposal rates due to the inherent high organic content of Topsoil.

The individual summary of the statistical analysis for Lead are included in **Appendix D**.

7.5 Leachate Contamination Assessment

Leachate analysis has not been undertaken due to the generally low concentrations of contaminants reported.

7.6 Groundwater Contamination Assessment

Significant groundwater was generally not encountered during the trial pitting and drilling works.

7.7 Gas and Groundwater Monitoring

44 No. monitoring wells were installed by SE as part of the commissioned works. Results are reported within Appendix F.

8.0 ENVIRONMENTAL RISK ASSESSMENT

8.1 Gas Monitoring

Ground gas and water monitoring wells have been monitored in accordance with CIRIA C665 and BS8576:2013.

8.2 Gas Risk Assessment

NHBC Foundation have developed a guidance document (NF94) 'Hazardous ground gas - an essential guide for housebuilders' to be used in conjunction with BS 8485:2015+A1:2019 to characterize sites using Gas Screening Value (GSV), the term Gas Screening Value (GSV) was originally used in CIRIA C665 and is a value derived from the assessment of gas monitoring data obtained from either spot monitoring or continuous data as set out in BS8485.

The borehole hazardous gas flow rate is obtained for each hazardous gas, by multiplying the relevant gas concentration by the flow rate. It is calculated for each gas, on each monitoring event in each well.

The individual values of borehole hazardous gas flow rate (Q_{hg}) obtained from several monitoring locations over a number of visits are considered collectively to establish a Gas Screening Value (GSV) for the site as a whole (a site characteristic GSV). This requires consideration of the results in relation to the conceptual site model.

The site characteristic GSV for both methane and carbon dioxide are then used to determine the characteristic situation (CS), with CS1 representing the lowest risk and CS6, the highest.

The Characteristic Situation system has been designed for both methane and carbon dioxide, with the worst-case value adopted for assessment.

Ground Gas Monitoring Data

A total of 13 visits have now been completed, due to the phase nature of the works this equates to 6No. visits for each monitoring point. The gas monitoring results to date are presented in **Appendix F**.

The maximum Methane and Carbon Dioxide emissions, which are representative of the Typical Maximum Concentrations, were as follows:

Methane:	0.0% v/v
Carbon Dioxide:	2.9% v/v

The maximum recorded steady state concentration of methane was 0.0% v/v, for calculations 0.1 l/h is assumed as this is the limit of detection for the device.

The maximum representative recorded concentration of Carbon Dioxide to date was 2.9% (steady). The maximum recorded flow rate in the boreholes was 0.0 l/hr.

The maximum recorded flow rate in the boreholes was 0.0 l/hr. However, 0.1 l/hr will be used to calculate the GSV.

The calculated GSVs using maximum values for Methane and Carbon Dioxide are as follows:

Methane: $(0.1/100) \times 0.1 = 0.0001 \text{ l/hr}$

Carbon Dioxide: $(2.9/100) \times 0.1 = 0.0029 \text{ l/hr}$

The monitoring data has been compared to the values in BS 8485. The Gas monitoring results to date are presented within **Appendix F**.

The site as a whole is classified as **Characteristic Situation 1 (CS1)** under the BS 8485 system for Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings.

8.3 Gas Protection Measures

BS8485:2015, "Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings" sets out a methodology for determining an appropriate level of protection against ground gases in respect of the Characteristic Situation classification and the proposed building type.

The proposed development is understood to be **RESIDENTIAL** in nature. For a site classified as **CS1**, no ground gas protection measures are required when the development is assessed BS8485.

8.4 Discussion

Using calculated GSVs for Methane and Carbon Dioxide based on monitoring to date and following guidance outlined in NHBC NF94, the site as a whole is **Low Risk** and classified as **Characteristic Situation 1 (CS1)** under the BS 8485 system for Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings.

For site classified as CS1 under BS8485 no ground gas protection measures are required.

The site is not in an area where Radon Protection Measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment and confirmed by the UK Radon interactive map.

9.0 ENVIRONMENTAL RISK ASSESSMENT

All available data has been collated and evaluated to establish an initial conceptual model of the site in its current condition and post development identifying sources, pathways and receptors and pollutant linkages. The conceptual site model has been developed in accordance with BS10175: 2011.

The proposed end use for the site is residential and a Tier 1 risk assessment has been undertaken using the Shadbolt Group Tier 1 Screening Value (TSV) guidelines for a **RESIDENTIAL DEVELOPMENT with consumption of home-grown fruit and vegetables**, end use.

9.1 Contamination Sources

In total 103 No. soil samples were submitted for chemical testing of a suite of common contaminants from the SG ground investigation with 80 No. samples submitted screened for the presence of Asbestos.

Reported concentrations of potential contaminants are discussed in Section 7.4.

No Made Ground was encountered in any of the 177 No. exploratory holes across the site.

No samples were reported to contain Asbestos.

A single Topsoil sample indicated slightly elevated concentration of lead. Statistical analysis of the lead concentrations indicated that the 95% UCL is below the relevant thresholds, however, the elevated lead concentrations within this single sample are indicated by the statistical analysis to be an outlier.

An area of Topsoil (approximately 10m x 10m) around the identified elevated lead concentrations (WS-10) should be removed at the outset of groundworks as a precautionary measure and stockpiled separately for further analysis.

Subject to the findings of the analysis, the Topsoil may be suitable for reuse in Public Open Space areas or may be removed to a suitable waste facility. However, this will attract hazardous waste disposal rates due to the inherent high organic content of Topsoil.

No other elevated concentrations were reported that would constitute evidence of significant contamination and no further remedial measures are considered to be required based on the testing carried out to date.

It is also noted that the investigation typically avoided conducting exploratory point in the vicinity of any service runs crossing the area to avoid damage to services. As services are typically laid in trenches with either loose Made Ground backfilled around the service or coarse gravel these are typically permeable and can provide significant pathways for contamination. As such there remains a risk of encountering potentially unidentified contamination within such service runs across the site.

There exists a similar risk of unidentified contamination in areas which the investigation avoided due to ecological and archaeological constraints and beneath existing building footprints.

9.2 Potential Contaminant Pathways

The following potential contaminant pathways are possible and should be considered during the construction phase and the post development end use.

- Inhalation / ingestion of dust, gases, and vapour.

- Ground gas / vapour migration.
- Dermal contact.
- Ingestion of soils and / or groundwater.
- Leaching of contaminants from made ground soils to groundwater.
- Groundwater flow.
- Soil gas migration through Made Ground, granular soils, fissures and mine entries.
- Migration and leakage through service conduits.

9.3 Potential Contamination Receptors

The potential receptors listed below are proposed considering the current status of the site and surrounding area, and a potential RESIDENTIAL end use.

Human Health

- Current site users.
- Future site users.
- Site development workers.
- Maintenance workers

Environmental

- Future establishment of flora and fauna.
- Buildings and underground services.
- Controlled waters and aquifers.

9.4 Qualitative Risk Assessment

By considering the sources, pathways and receptors, an assessment of the environmental risks is made with reference to the significance and degree of the risk to the development for current and future site users.

The qualitative risk assessment has been undertaken in accordance with BS10175:2011 and CIRIA Document C552: Contaminated Land Risk assessment, A Guide to Good Practice.

The risk assessment has been carried out by assessing the severity of the potential consequence, taking into account both the potential severity of the hazard and the sensitivity of the target, based on the categories given in Table 9.4.1 below.

<i>Category</i>	<i>Definition</i>
Severe	Acute risks to human health, catastrophic damage to buildings / property, major pollution of controlled waters
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species, significant damage to buildings or structures
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non-sensitive ecosystems or species

Table 9.4.1 – Definition of Risk Severity

The likelihood of an event (probability) takes into account both the presence of the hazard and target and the integrity of the pathway and has been assessed based on the categories given in Table 9.4.2 below.

<i>Category</i>	<i>Definition</i>
High Likelihood	Pollutant linkage may be present, and risk is almost certain to occur in long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term
Low Likelihood	Pollutant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so
Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable

Table 9.4.2 – Definition of Risk Probability

The potential severity of the risk and the probability of the risk occurring have been combined in accordance with the following matrix, Table 9.4.3 below, in order to give a level of risk for each potential hazard.

		<i>Potential Severity</i>			
		<i>Severe</i>	<i>Medium</i>	<i>Mild</i>	<i>Minor</i>
<i>Probability of Risk</i>	<i>High Likelihood</i>	Very high	High	Moderate	Low/Moderate
	<i>Likely</i>	High	Moderate	Low/Moderate	Low
	<i>Low likelihood</i>	Moderate	Low/Moderate	Low	Very low
	<i>Unlikely</i>	Low/Moderate	Low	Very low	Very low

Table 9.4.3 – Risk Matrix of Potential Hazard

The contamination risk assessment for the site based on identified sources is presented in Table 9.4.4. Further discussion of the more significant

Hazard / Pollutant	Source	Pathway	Receptor	Potential severity	Probability of risk	Level of risk
The site has Historically been used as agricultural land. A small area (now bordering the southeastern site boundary) was used as a chalk pit. The ground investigation has identified no significant elevated contaminant concentration except a single elevated lead.	Contaminants may be present in the soils surrounding the subject site. Tested samples have reported only one sample showing elevated Lead in exceedance of SGV. Statistical analysis indicated the lead concentration within this sample to be an outlier. An area of Topsoil (approx. 10m by 10m) around the identified elevated lead concentration (WS-10) should be removed at the outset of groundworks as a precautionary measure and stockpiled separately for further analysis. No asbestos reported from samples subject to testing.	Inhalation, Dermal contact, and Ingestion	Future site users, future buildings, and structures.	Medium	Unlikely	Low
		Inhalation, Dermal contact, and Ingestion	Development workers.	Medium	Unlikely	Low
		Root Uptake	Plants	Minor	Unlikely	Very Low
		Contaminated Groundwater Migration	Superficial Aquifer – Limited localised superficial deposits on the north of site.	Minor	Unlikely	Low
			Principal Aquifer (Chalk)	Medium	Unlikely	Low
			Water Courses	Medium	Unlikely	Low
		Leaching of Soil Contamination	Superficial Aquifer - No significant superficial deposits encountered during site works	N/A	Unlikely	Very Low
			Principal Aquifer (Chalk)	Medium	Unlikely	Low
			Water Courses	Medium	Unlikely	Low
		Migration through service conduits, foundations, drainage solutions)	Superficial Aquifer – Limited localised superficial deposits on the north of site.	Minor	Unlikely	Low
			Principal Aquifer (Chalk)	Medium	Unlikely	Low
			Water Courses	Medium	Unlikely	Low
		Surface Run-off	Superficial Aquifer - No significant superficial deposits encountered during site works	N/A	N/A	N/A
			Principal Aquifer (Chalk)	Medium	Unlikely	Low
			Water Courses	Medium	Unlikely	Low
		Volatilisation (vapour phase migration and portioning into sorbed / dissolved phase).	Superficial Aquifer - No significant superficial deposits encountered during site works	N/A	N/A	N/A
			Unproductive Aquifer	Medium	Low Likelihood	Low
			Culvert / Water Course	Medium	Unlikely	Low
Hazardous gas and volatile compounds	Concentrations of methane and carbon dioxide generally are low.	Inhalation, Explosion	Future site users, Structures	Medium	Unlikely	Low
			Site development workers	Medium	Unlikely	Low

Table 9.4.4 – Contamination Risk Assessment

9.4.1 Current and Future Site Users

Potential pathways considered significant to current and future site uses are dermal contact, ingestion of contaminated soil / groundwater and inhalation of fibres, gases, vapours or dusts.

A single slightly elevated lead concentrations was identified within a single sample of Topsoil from borehole WS-10. Statistical analysis indicates that the elevated result is an outlier. An area of Topsoil (approximately 10m x 10m) around the identified elevated lead concentration (WS-10) should be removed as a precautionary measure at the outset of groundworks and stockpiled separately for further analysis.

Subject to the findings of the analysis, the Topsoil may be suitable for reuse in Public Open Space areas or may be removed to a suitable waste facility. However, this will attract hazardous waste disposal rates due to the inherent high organic content of Topsoil.

Soils identified in exploratory holes excluding those in the excavation around WS-10 would be considered suitable for reuse at the site.

Based on the chemical analysis data it is considered that the site presents a LOW risk to current site users from the soils located at the site. Should the site be developed in the future the risk to site users would be LOW based on the chemical analysis data.

9.4.2 Ground Excavation / Development Workers

Significant earthworks are not envisaged ahead of future construction. Limited cut and fill works are likely to be undertaken to create a suitable development platform utilising existing site won soils.

It is considered that the risk to construction and/or maintenance workers during redevelopment works and post-development maintenance works is Low owing to the low concentrations of reported contaminants. However, site development workers should remain vigilant for the evidence of contamination.

Should any materials, including suspected Asbestos Containing Materials, suspected of being contaminated be observed during site works these works should cease and specialist environmental advice sought.

9.4.3 Future Developments including Buried Structures and Services

The risk to buried structures and services (i.e. possible migration of contamination within service corridors) is considered to be Low.

9.4.4 Controlled Waters

Given the concentrations of potential contaminants identified on site and the general lack of significant groundwater across the majority of the site it is considered that there is very low risk to controlled waters within the vicinity of the site and the underlying aquifer due to the generally low contaminants concentrations identified.

Further assessment should be carried out should any suspected contamination be identified during the construction works.

9.4.5 Flora

It is considered soils encountered at the site would pose a very low risk to any planting at the site.

10.0 GROUND ENGINEERING CONSIDERATIONS

10.1 Proposed Development

It is understood that the proposed development is to comprise predominantly traditional residential housing, a school and associated infrastructures.

10.2 Ground Obstructions

Ground obstructions were not encountered during intrusive investigations with the exception of shallow rockhead. Similar obstructions may be reasonably expected during onward development works. The presence of any relict structures is considered unlikely but cannot be ruled out. Rows of hedges/ small trees bound the site and are also noted through the centre of the site.

10.3 Mining

The site is not located within a known coal mining affected area as verified by The Coal Authority's Coal Mining Gazetteer for England and Wales.

There is a record referring to a small historic chalk pit identified on the southeastern boundary of the site—surface mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered.

There are no other records of Historical Mining, JPB Mining Areas, Non-Coal Mining Cavities, Natural Cavities, Brine Extraction, Tin Mining and Clay Mining within 1000m of the site.

10.4 Foundations and Settlement Issues

Traditional strip foundations are considered to be suitable for a residential development founded at a minimum depth of 0.90m bgl (below the depth of frost susceptibility, 450mm, and the maximum depth of disturbed Topsoil/Sub-soil due to agricultural action) based upon Insitu testing and observation.

The majority of the development is likely to be found upon chalk of varying grade and weathering extent. Although some shallow superficial sand/clay soils were identified on site these were typically only located on the far northern areas of the site which is proposed as areas of public open space. Should proposals change and structure be proposed in these areas the foundation assessment below should be reviewed considering the ground conditions within that area.

Bearing capacities in the order of 100kPa should be available in shallow Structureless Chalk soils which are generally not considered to be subject to volume change potential with changes in moisture content. Atterberg testing has confirmed that generally that chalk on site is non-plastic with a modified plasticity index of <10. Higher bearing capacities in the order of 150-200 kPa are considered readily achievable at depths of c.2.0m within the structured chalk. The possibility of localised soft spots at founding depth cannot be ruled out. Foundations may require deepening in these areas to reach more competent strata.

Areas of both Dc (clast dominated Structureless Chalk) and Dm (matrix dominated Structureless Chalk) were encountered during the investigation, along with a variable depth of encountered more structured chalk. As such it is recommended that reinforcement bar is incorporated into foundation to mitigate against potential differential settlement across varying strata.

In all instances the depth of foundations may need to be assessed on a plot-by-plot basis to allow for the influence of changes in level following earthworks, plot specific bearing capacity and existing trees and hedgerows and any planned planting should any cohesive soils be present in the area.

10.5 Earthworks

Significant earthworks are not anticipated across the site however some minor cut and fill works to provide a suitable development platform is likely to be required at the site.

Earthworks involving underlying chalk bedrock are considered feasible - however care is required when handling chalk material – particularly if Class 3 chalk material is encountered (which must be compacted in accordance with the specific requirements for Class 3 materials under SHW Series 600).

Shallow chalk encountered at the site has been classed as chalk Class A to Class D.

However, given that no significant superficial deposits were encountered (within expected development areas), and the strata consisted of Topsoil directly over weathered Chalk/Chalk the majority of any excavations and earthworks cut/fill will consist predominantly of chalk material. Where >30% of excavated material is chalk the material should be assumed to be Class 3. Care should still be taken to minimise handling of chalk and to avoid excessive exposure to moisture. Chalk material should not be placed within the upper 450mm of road construction due to frost susceptibility.

It is also noted that chalk deteriorates quickly particularly due to standing water and during inclement (wet/cold) weather and excavations should be protected.

No significant groundwater was encountered during the majority of the SI works.

Significant groundwater was encountered in only 4No. exploratory holes during the ground investigation, namely TP-096 (3.00m bgl), TP-097 (2.00m bgl), TP-098 (2.70m bgl) and WS-37 (2.00M bgl), all of which were located in the northwest area of the site. Standing groundwater within the monitoring well in WS-37 has also been reported during return monitoring visits ranging from 1.20m to 2.35m. These exploratory points are located on the northwest of site within a relatively low lying depression and consideration for control of groundwater may be required within this area.

An Earthworks/Remediation Strategy should be developed for the site to further assess and dictate the works required to create a development platform appropriate to the proposed development.

Excavations in shallow soils typically remained stable over short periods during the investigation but excavations may require shoring or benching, and edges should be protected in line with current guidance / best practise if they are to remain open. Where structured chalk was encountered at shallow depth some overbreaking occurred during excavations which may result in wider than planned trenches and some induced instability of trench sides.

10.6 Chemical Attack on Buried Structures

The water-soluble sulphate test results generally recorded concentrations between, 1.8mg/l (TP-005) and 143mg/l (WS-R5-03), with an average of 17.6mg/l SO₄. The soil pH was between 7.5 (TP-028) and 9 (TP-082) with an average of 8.2 indicating slightly alkali conditions.

The results have been assessed in accordance with the guidance given in BRE Special Digest 1:2005. Assuming Brownfield locations with static groundwater the Design Sulphate Class across the site is DS-1 to DS-1, ACEC Class AC-1S (assuming static groundwater).

10.7 Drainage and Infrastructure

The planned development is for residential properties with gardens, areas of soft landscaping and associated infrastructure.

Infiltration testing was carried out adjacent to trial pits with indicative infiltration rates as outlined in the table below. The full infiltration testing data is presented within Appendix B.

Adjacent Exploratory Position	Soakaway Reference	Depth of Test	Indicative Infiltration Rate (m/s)
TP-068	SA01	1.30	1.43*10 ⁻⁵ m/s
TP-010	SA02	1.30	1.78*10 ⁻⁵ m/s
TP-105	SA03	1.40	2.27*10 ⁻⁵ m/s
TP-131	SA04	1.30	8.17*10 ⁻⁵ m/s
TP-039	SA05	1.20	4.27*10 ⁻⁵ m/s
TP-031	SA06	1.40	5.85*10 ⁻⁵ m/s
TP-022	SA07	1.60	1.85*10 ⁻⁵ m/s
TP-055	SA08	1.40	8.41*10 ⁻⁶ m/s
TP-045	SA09	1.30	9.98*10 ⁻⁵ m/s
TP-048	SA10	1.30	5.22*10 ⁻⁶ m/s

As shallow Chalk has been encountered across the majority of the site, shallow soakaways may be feasible, however, careful considerations need to be given to soakaways in chalk due to the risk of dissolution from the concentrated discharge of a soakaway.

In accordance with CIRIA C574 Engineering in Chalk where dissolution features are present soakaways should be avoided if possible or, if unavoidable, sited at least 20m away from any foundation, road or site boundary. Where no dissolution features are present the offset is typically determined by the density of the chalk, as determined by field logging and laboratory intact dry density testing (IDD).

Where the chalk is typically of low density soakaways should be sited at least 10m away from any foundation, road or site boundary. Where the chalk is of medium density (or higher) soakaways should be sited at least 5m away from any foundation, road or site boundary.

The density of the chalk strata across the site was typically low locally medium with laboratory testing indicating Intact Dry Densities of between 1.32Mg/m^3 to 2.12Mg/m^3 with 15 of 101 results (c.15%) classified as low and the remaining 86 (85%) as medium or above, and an average of 1.70Mg/m^3 (medium).

On this basis the chalk stratum on site is considered to be of variable density with respect to the CIRIA C574 guidance in relation to soakaways and some zoning may be appropriate. Therefore, soakaways should be sited at an appropriate distance from any foundation, road and boundary.

Flexible jointed pipes should be used wherever possible, and care should be taken for the avoidance of leaks in both water supply and drainage pipework.

As the Chalk is classified as a principal aquifer the Environment Agency as well as the local authority should be consulted regarding installation of soakaway.

Drainage may also utilise existing formal drainage surrounding the site.

Chalk material should not be placed within the upper 450mm of road construction due to frost susceptibility.

Excavations on site were generally stable during exploratory works. However, these excavations were open for a relatively short period of time and did not experience heavy rainfall. Should excavations be required to be left open for longer periods trench support may be required and careful considerations need to be given - particularly with wet weather.

11.0 CONCLUSIONS AND RECOMMENDATIONS

11.1 Conclusions

Shadbolt Environmental (SE) part of the **Shadbolt Group (SG)** were commissioned by **Urban and Civic** to undertake an intrusive ground investigation on the Baldock BA1 site in Baldock, North Hertfordshire which is part of an investigation within a larger development area. The investigation was carried out under the supervision of SG, with site works carried out in March 2024.

A total of 177 No. exploratory holes consisting of Trial Pits and Boreholes (Windowless Sampling and Rotary) have been undertaken as part of this investigation.

Topsoil was encountered in all 177 No. exploratory holes across the site. The topsoil encountered from ground level to between 0.15m and 0.40m bgl more typically in the range of 0.30m bgl. The topsoil was generally described as Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk, flint and chert.

Superficial Deposits were recorded in 8 No. exploratory holes, majority located in the northern regions of the site. The superficial deposits comprised cohesive material of firm to stiff friable grey mottled brown slightly sandy slightly gravelly CLAY and were encountered between 0.30m bgl and 2.40m bgl (maximum drill depth).

Bedrock deposits of Chalk were encountered in all 177 No. exploratory holes across the site from depths of 0.3m bgl – immediately beneath Topsoil.

Localised loose orange brown mottled white SAND and GRAVEL of chalk and flint was encountered directly below the Topsoil and up to a maximum depth of 4.45m. Given the general lack of other superficial deposits across the site and the predominance of chalk as the gravel fraction these soils are considered to be heavily weathered chalk as opposed to superficial deposits.

The Chalk strata initially comprised Structureless Chalk of white mottled orange brown silty GRAVEL/gravelly SILT with structured chalk at depth.

Structured Chalk was encountered from depth of between 0.30m and 2.60m depth bgl (more typically 1.00m to 2.00m bgl) and comprised extremely weak to weak low locally medium density Chalk. The Chalk strata was generally excavated to a depth of 3.00m without significant obstruction and recovered as angular fine to coarse gravel with light orange brown silty matrix typically becoming coarser with cobbles and lower matrix content at depth. The shallow structured chalk was typically considered to be of Grade B/C.

The chalk within the deeper rotary boreholes typically comprised white, off white and cream locally mottled orange brown and speckled black extremely weak to very weak low to medium, locally high-density CHALK with very closely to medium spaced horizontal (bedding) and steeply inclined / vertical fractures which resulted in significant core disturbance. At greater depth in some boreholes light brown / cream sandy (gritty) extremely to very weak low to medium density CHALK with wispy marl seams locally with a shaley texture and typically more closely spacing bedding fractures (locally with silty infill) was encountered and extended to the base of the deeper boreholes.

The chalk grade within the deeper rotary boreholes ranged from A3 to C5, however it is considered that the disturbance due to the inclined fractures can result in an underestimate of chalk grade.

The base of the Chalk strata was not encountered within any of the exploratory holes the maximum depth of which was 15.50m bgl.

No Made Ground were encountered in any of the 177 No. exploratory holes across the site.

Localised loose orange brown mottled white SAND and GRAVEL of chalk and flint was encountered directly below the Topsoil and up to a maximum depth of 0.80m. Given the general lack of other superficial deposits across the site and the predominance of chalk as the gravel fraction these soils are considered to be heavily weathered chalk as opposed to superficial deposits.

Significant ground was only encountered in 4 No. exploratory holes, namely, TP-096, TP-097, TP-098 and WS-37 at depth of between 1.00m and 3.00m depth and measure in return visits to the monitoring standpipe within WS-37 at depth of between 1.20m to 2.35m. These exploratory points are located on the northwest of site within a relatively low lying depression and consideration for control of groundwater may be required within this area. No significant groundwater was encountered elsewhere on site.

No obstructions were noted during the investigation with the exception of shallow rockhead.

There was no evidence (visual / olfactory) of contamination noted during the site investigation.

The findings of the environmental testing indicate that the soils encountered at the site are unlikely to pose a significant risk to human health or the environment with respect to the proposed residential development and materials are considered suitable for reuse at the site. The risk to the proposed development is considered to be **Low**. Materials stripped from the vicinity of the elevated lead concentrations identified in WS-10 may be suitable for re-use in area of POS subject to suitable testing. Materials on site, excluding those excavated in the vicinity of WS-10, are considered suitable for reuse at the site.

80 No. samples were also scheduled for qualitative Asbestos analysis. No samples reported the presence of asbestos.

It is also noted that the investigation typically avoided conducting exploratory point in the vicinity of known service runs to avoid damage to services. As services are typically laid in trenches with either loose Made Ground backfilled around the service or coarse gravel these are typically permeable and can provide significant pathways for contamination. As such there remains a risk of encountering potentially unidentified contamination within such service runs across the site.

The presence of further contaminants cannot be ruled out and development workers should remain vigilant for evidence of potential contamination and seek assistance from a suitably qualified environmental engineer.

The site has been assessed in accordance with the guidance given in BRE Special Digest 1:2005. Assuming natural soil with mobile groundwater the Design Sulphate Class for the site is DS-1, ACEC Class AC-1.

Traditional strip foundations are considered to be suitable for a residential development founded at a minimum depth of 0.90m bgl in Structureless Chalk soils with allowable bearing capacities in the order of 100 kPa considered achievable at these depths. High bearing capacities in the order of 150-200 kPa are considered readily achievable at depths of c.2.0m within the structured chalk. Higher bearing capacities could be achieved if required using deeper trench fill foundations on structured chalk (typically below approx. >2.0m bgl) or by the use of a piled foundation solution.

Areas of both Dc (clast dominated Structureless Chalk) and Dm (matrix dominated Structureless Chalk) were encountered during the investigation, along with a variable depth of encountered more structured chalk. As such it is recommended that reinforcement bar is incorporated into foundation to mitigate against potential differential settlement across varying strata.

In all instances the depth of foundations may need to be assessed on a plot-by-plot basis to allow for the influence of changes in level following earthworks, plot specific bearing capacity and existing trees and hedgerows and any planned planting.

Where shallow Chalk has been encountered across the site shallow soakaways may be feasible. However, careful considerations need to be given to soakaways in chalk due to the risk of dissolution from the concentrated discharge of a soakaway. The density of the chalk strata across the site as defined by the CIRIA C574 guidance was variable and some zoning may be appropriate. Therefore, soakaways should be site at an appropriate distance from any foundation, road and boundary.

Ground gas and groundwater monitoring visits have been completed across the majority of the site. Based on the concentrations of Methane and Carbon Dioxide present on site, the site classifies as Characteristic Situation 1 (CS1) for which no ground gas protection measures are required.

The Shadbolt Group

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APPENDIX A

REPORT CONDITIONS

REPORT CONDITIONS

GEO-ENVIRONMENTAL GROUND INVESTIGATION

*This report is produced for the benefit of **Urban and Civic** in accordance with the terms of the appointment.*

This report has been prepared in accordance with the terms and conditions of the appointment and relates to the condition of the site at the time of ground investigations. No warranty is provided as to the possibility of future changes in the condition of the site.

Shadbolt Environmental takes no responsibility for conditions which occur between the individual exploratory holes.

This report is prepared and written for the purposed uses stated in the report and should not be used in a different context without reference to Shadbolt Environmental. In time, improved practices or amended legislation may necessitate a re-assessment.

The report is limited to the geotechnical and environmental aspects detailed within the report and is necessarily restricted.

APPENDIX B

2906-003(BA1) – EXPLORATORY HOLE LOCATION PLAN

EXPLORATORY HOLE LOGS (Trial Pit Logs)

EXPLORATORY HOLE LOGS (Window Sample Borehole Logs)

EXPLORATORY HOLE LOGS (Rotary Borehole Logs)

INFILTRATION TESTING RESULTS

Project Id: 2899
Project Title: Baldock
Location: Baldock, North Hertfordshire
Client: Urban & Civic

Title: Site Plan
Scale: 1:3500
Engineer: Stephen J Fisk
Contractor:

- Legend Key
-  Locations By Type - Empty
 -  Locations By Type - RC
 -  Locations By Type - TP
 -  Locations By Type - WLS





Trial Pit Log

Trial Pit No
TP-001
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525403.21 - 235450.29 Level: 67.41	Date 03/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	67.11		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES					Loose brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk.	
	1.20 - 1.30	B		2.00	65.41			1
	1.70 - 1.80	D						
	2.10 - 2.20	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				3.00	64.41		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-002
Sheet 1 of 1

Project Name: Baldock		Project No. 2899		Co-ords: 525117.02 - 235287.51 Level: 67.48		Date 02/11/2023	
Location: Baldock, North Hertfordshire				Dimensions (m): 3.20		Scale 1:20	
Client: Urban & Civic				Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10 - 0.15	ES		0.30	67.18		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.
	0.50 - 0.60	ES					Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk and chert.
	0.90 - 1.00	D		0.60	66.88		Firm brown mottled orangish brown and grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.
	1.70 - 1.80	D					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.
	2.00 - 2.10	B		1.50	65.98		
			3.00	64.48		End of Pit at 3.00m	

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator



Trial Pit Log

Trial Pit No
TP-003
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525389.17 - 235327.82 Level: 74.99	Date 03/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	74.69		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.80 - 0.90	ES		1.40	73.59		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.50 - 1.60	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	B		3.00	71.99		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-004
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525532.87 - 235313.47 Level: 77.82	Date 03/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.30	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	77.52		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.70 - 0.80	ES					Firm brown and grey mottled slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	1
	1.20 - 1.30	B						
	1.80 - 1.90	D		2.00	75.82		Stiff grey mottled orangish brown and brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	2
	2.40 - 2.50	D					Sand pocket at 2.50m.	
	3.00 - 3.10	D		3.00	74.82		Loose brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	3
				3.30	74.52		End of Pit at 3.30m	4

Remarks: Potential groundwater at 3.10m.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-005
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525312.11 - 235237.81 Level: 75.62	Date 02/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	75.32		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES					Firm yellowish brown, brown and grey mottled slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	1
	1.00 - 1.10	B		1.30	74.32		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.40 - 1.50	D		1.60	74.02		Weak medium density white mottled orangish brown and black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact orangish brown and black silt-sized comminuted chalk. Grade B	2
	2.00 - 2.10	D		3.00	72.62		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-006
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 524795.34 - 235130.13 Level: 62.81	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	62.51		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.90	61.91		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.10 - 1.20	D		2.00	60.81		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.60 - 1.70	B		3.00	59.81		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
							End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-007
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525018.29 - 235126.34 Level: 70.96	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	70.66		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.70	70.26		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
	1.20 - 1.30	D					Firm to stiff yellowish brown, brown and grey mottled slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	1
	1.50 - 1.60	B		1.60	69.36		Firm brown and grey mottled slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	2
	1.90 - 2.00	D						
				3.00	67.96		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

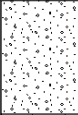
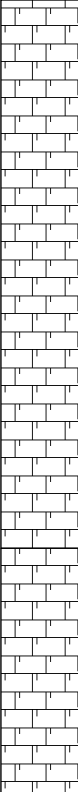
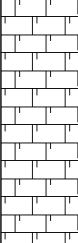


TrialPit No
TP-008
Sheet 1 of 1

Date
07/11/2023

Scale
1:20

Logged
HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	69.84		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1 2 3 4
	0.40 - 0.50	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.70 - 0.80	B					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	
	1.10 - 1.20	D						
	2.30 - 2.40	D		2.05	68.09		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
			2.70	67.44	End of Pit at 2.70m			





Trial Pit Log

TrialPit No
TP-009
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525185.94 - 235166.43 Level: 71.39	Date 02/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	71.09		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.60 - 0.70	B						
				0.90	70.49		Structureless CHALK composed of loose white mottled creamy and orangish brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	D						
				2.00	69.39		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.20 - 2.30	D						
				3.00	68.39		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-010
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525331.27 - 235165.18 Level: 74.09	Date 02/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	73.79		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.60	73.49		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	D					Structureless CHALK composed of loose white mottled light brown silty GRAVEL. Gravel consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade Dc.	1
	1.90 - 2.00	B		2.00	72.09		Weak medium density white mottled cream and black CHALK. Fractures are horizontal and closely spaced (20-50mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.50 - 2.60	D		3.00	71.09		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-011
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525420.25 - 235146.93 Level: 74.29	Date 02/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.80	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10 - 0.15	ES		0.30	73.99		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.
	0.50 - 0.60	ES					Structureless CHALK composed of loose orangish brown mottled white silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade D.
	1.30 - 1.40	B		1.40	72.89		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.
	1.80 - 1.90	D		2.80	71.49		End of Pit at 2.80m

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-012
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525486.85 - 235186.06 Level: 76.02	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	75.72		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.80 - 0.90	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade D.	1
	1.40 - 1.50	B		1.50	74.52		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.80 - 1.90	D		3.00	73.02		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-013
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525485.14 - 235135.42 Level: 74.03	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	73.73		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.90	73.13		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.20 - 1.30	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	1
	2.10 - 2.20	B						2
	2.60 - 2.70	D		3.00	71.03			3
							End of Pit at 3.00m	4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-014
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525644.71 - 235147.83 Level: 75.83	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.90	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	75.53		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES		1.00	74.83		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of weak medium density angular to sub-angular, fine to coarse chalk. Grace C.	1
	1.20 - 1.30	B					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	1.60 - 1.70	D						2
	2.50 - 2.60	D		2.90	72.93		End of Pit at 2.90m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	





Trial Pit Log

TrialPit No
TP-016
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525028.84 - 235080.47 Level: 69.46	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m):	Scale 1:20
Client: Urban & Civic		Depth 3.00	Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	69.16		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		1.20	68.26		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.30 - 1.40	D		2.00	67.46		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	2
	1.70 - 1.80	B						
	2.30 - 2.40	D		3.00	66.46		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	3
							End of Pit at 3.00m	4

Remarks: No groundwater encountered.

Stability:
Plant:





Trial Pit Log

TrialPit No
TP-017
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525109.11 - 235074.73 Level: 68.70	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.70	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	68.40		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		1.10	67.60		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.20 - 1.30	B		2.00	66.70		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	2
	1.70 - 1.80	D		2.70	66.00		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	3
							End of Pit at 2.70m	4

Remarks: No groundwater encountered.	
Stability: Undercuts after 1.20m	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-018
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525187.72 - 235084.89 Level: 69.24	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.70 Depth 2.80	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.30 - 0.40	ES		0.30	68.94		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	B		0.80	68.44		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.60 - 1.70	D		1.50	67.74		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	D						
				2.80	66.44		End of Pit at 2.80m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-019
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525332.71 - 235081.42 Level: 71.09	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.40	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	70.79		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.60 - 1.70	D		1.50	69.59		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	B		2.40	68.69		End of Pit at 2.40m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-020
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525396.16 - 235086.58 Level: 72.00	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 2.20	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	71.70		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.60	71.40		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.10 - 1.20	B		1.20	70.80		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	2.00 - 2.10	D		2.20	69.80		End of Pit at 2.20m	2
								3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-021
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525604.66 - 235054.63 Level: 72.51	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 2.70	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.20 - 0.25	ES		0.20	72.31		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert and chalk.	
				0.30	72.21		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.70 - 0.80	ES		0.90	71.61		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	D		1.50	71.01		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.80 - 1.90	B		2.70	69.81		End of Pit at 2.70m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-022
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526048.91 - 235090.54 Level: 81.37	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 2.70 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	81.07		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	D		0.70	80.67		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.20 - 1.30	B					Structureless CHALK composed of loose brown mottled white silty GRAVEL Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade Dc.	1
	1.60 - 1.70	D						
				2.00	79.37		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.20 - 2.30	D		3.00	78.37			
							End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-023
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526205.61 - 235078.70 Level: 82.48	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	82.18		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.50	81.98		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	D		1.20	81.28		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.40 - 1.50	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-50mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	B		3.00	79.48		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-024 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234998.77 - 524368.79 Level: 57.86		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	D		0.30	57.56		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	0.60 - 0.70	ES		0.70	57.16		Structureless CHALK composed of cream, brown and white mottled gravelly SILT. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint, Grade D.		
	1.10 - 1.20	D							
	1.60 - 1.70	B							
	2.60 - 2.70	D		3.00	54.86		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									



Trial Pit Log

TrialPit No
TP-025
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 524881.70 - 235007.23 Level: 72.03	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	71.73		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES					Soft to firm brown mottled grey and light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
	0.80 - 0.90	B		1.40	70.63		Soft to firm yellowish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular to sub-rounded of chalk.	1
	1.30 - 1.40	D						
	1.60 - 1.70	D						
	2.10 - 2.20	D		2.00	70.03		Brown mottled reddish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	2
	2.70 - 2.80	D		2.70	69.33		Very weak SILTSTONE.	3
				3.00	69.03		End of Pit at 3.00m	
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-026
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525028.06 - 234998.69 Level: 67.53	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.80	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	67.23		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES		0.80	66.73		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.10 - 1.20	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.60 - 1.70	B						2
	2.40 - 2.50	D		2.20	65.33		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
				2.80	64.73		End of Pit at 2.80m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-027
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525188.20 - 235003.73 Level: 67.37	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20 - 0.25	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		0.50	66.87		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	0.90 - 1.00	B						
	1.30 - 1.40	D		1.20	66.17		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	
				1.80	65.57		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	D						
				3.00	64.37		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-028
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525257.93 - 235008.69 Level: 68.41	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.30 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	D		0.40	68.01		Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
				0.60	67.81		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	ES		1.00	67.41		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	D						
	2.10 - 2.20	B		2.20	66.21		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B	2
				3.00	65.41		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-029
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525336.68 - 235012.53 Level: 69.09	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.30 Depth 2.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	68.79		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.80	68.29		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	D		1.20	67.89		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.60 - 1.70	B		2.00	67.09		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-50mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
							End of Pit at 2.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-030
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525482.81 - 235017.71 Level: 70.79	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.80	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	70.49		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	D		1.00	69.79		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.20 - 1.30	D		1.70	69.09		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak high density angular to sub-angular, fine to coarse chalk. Grade C.	2
	1.90 - 2.00	B					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	2.40 - 2.50	D		2.80	67.99			
							End of Pit at 2.80m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-031
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525563.02 - 235005.66 Level: 70.99	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.30 - 0.40	D		0.30	70.69		Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk and chert.	
				0.50	70.49		Loose brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.80 - 0.90	ES						1
	1.20 - 1.30	B						
				1.40	69.59		Structureless CHALK composed of loose white mottled creamy brown silty GRAVEL. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade Dc.	
	1.80 - 1.90	D		1.80	69.19		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				3.00	67.99		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-032
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525649.24 - 234990.88 Level: 71.20	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.60	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10 - 0.15	ES		0.20	71.00		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.
	0.50 - 0.60	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.
	1.20 - 1.30	D		1.30	69.90		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.
	1.80 - 1.90	B					
	2.50 - 2.60	D		2.60	68.60		End of Pit at 2.60m

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-033
Sheet 1 of 1

Project Name: Baldock				Project No. 2899		Co-ords: 525707.85 - 235013.77 Level: 72.32		Date 01/11/2023	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.70 3.10		Scale 1:20	
Client: Urban & Civic						Depth 2.70		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	72.02		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.		
	0.40 - 0.50	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.		
	1.30 - 1.40	D		1.00	71.32		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.		
							Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.		
	2.10 - 2.20	B		1.80	70.52				
				2.70	69.62		End of Pit at 2.70m		

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator



Trial Pit Log

Trial Pit No
TP-034
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525809.14 - 234958.89 Level: 72.10	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.40	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	71.80		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		0.60	71.50		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.80 - 0.90	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.20 - 1.30	B						
	1.80 - 1.90	D		1.60	70.50		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				2.40	69.70		End of Pit at 2.40m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-035
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525940.24 - 235010.46 Level: 74.96	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	74.66		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade D.	1
	1.30 - 1.40	D		1.20	73.76		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	1.90 - 2.00	B						2
				3.00	71.96		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-036
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526012.27 - 235005.63 Level: 76.32	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

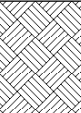
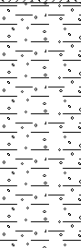
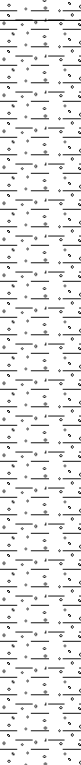
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	D		0.30	76.02		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
				0.60	75.72		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	0.90 - 1.00	B						
	1.30 - 1.40	D						
				1.50	74.82		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.20 - 2.30	D						
				3.00	73.32		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-036A Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234906.82 - 524440.83 Level: 66.19		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.20	65.99		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.40 - 0.50	D					Stiff brown and grey mottled slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular to sub-rounded of chalk and chert.		
	0.90 - 1.00	B							
	1.70 - 1.80	D							
	2.60 - 2.70	B		3.00	63.19		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

Trial Pit Log

Project Name: Baldock	Project No. 2899	Co-ords: 234958.04 - 524704.25 Level: 71.07	Date 20/05/2024
Location: Baldock, North Hertfordshire		Dimensions (m): 0.90 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	70.77		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
	0.50 - 0.60	D					Firm friable brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk and flint.	
	1.20 - 1.30	B		1.00	70.07		Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk.	1
	2.30 - 2.40	D						2
				3.00	68.07		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10T tracked excavator



 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log				TrialPit No TP-038 Sheet 1 of 1	
Project Name: Baldock				Project No. 2899		Co-ords: 234927.37 - 524803.23 Level: 71.65		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	D		0.30	71.35		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.60 - 0.70	ES					Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	1.50 - 1.60	B		1.20	70.45		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	2.40 - 2.50	D					End of Pit at 3.00m		
				3.00	68.65				
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									



Trial Pit Log

TrialPit No
TP-039
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 524892.55 - 234924.81 Level: 69.57	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	D		0.30	69.27		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
				0.70	68.87		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	1
	1.00 - 1.10	ES						
	1.20 - 1.30	B						2
				3.00	66.57		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-040
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525040.15 - 234930.23 Level: 65.75	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.50	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	65.45		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.90	64.85		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.10 - 1.20	D		1.70	64.05		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.50 - 1.60	B						
	2.40 - 2.50	D		2.50	63.25		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
							End of Pit at 2.50m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-041
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525110.60 - 234930.62 Level: 65.60	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.40	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	65.30		Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk and chert.	
				0.50	65.10		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	D						1
	1.40 - 1.50	B						
				1.60	64.00		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade D.	2
	2.00 - 2.10	D						
				2.30	63.30		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
				2.40	63.20		End of Pit at 2.40m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-042
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525188.03 - 234929.64 Level: 65.92	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.40	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
				0.40	65.52		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	0.80 - 0.90	D						
				1.30	64.62		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade D.	
	1.40 - 1.50	D						
	1.60 - 1.70	B		1.60	64.32		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				2.40	63.52		End of Pit at 2.40m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-043
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525339.71 - 234928.36 Level: 67.58	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 2.80	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.30 - 0.40	ES		0.30	67.28		Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
	0.60 - 0.70	B		0.80	66.78		Loose brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.20 - 1.30	D		1.60	65.98		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade C.	2
	2.00 - 2.10	D		2.80	64.78		End of Pit at 2.80m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-044
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525483.52 - 234931.05 Level: 68.66	Date 01/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 2.70	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	68.36		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1
	0.40 - 0.50	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.80 - 0.90	B		1.30	67.36		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.50 - 1.60	D						
				2.70	65.96		End of Pit at 2.70m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-045
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525790.67 - 234939.14 Level: 73.12	Date 10/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.80	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	72.82		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.10 - 1.20	B		1.30	71.82		Structureless CHALK composed of loose white mottled creamy brown silty GRAVEL. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade Dc.	
	1.60 - 1.70	D		1.70	71.42		Very weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade C.	2
	2.20 - 2.30	D						
				2.80	70.32		End of Pit at 2.80m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-046
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526011.33 - 234930.15 Level: 75.11	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.70	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	74.81		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
	0.70 - 0.80	D		0.50	74.61		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.30 - 1.40	D		0.80	74.31		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.80 - 1.90	B		1.60	73.51		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				2.70	72.41		End of Pit at 2.70m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-047
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526149.29 - 234921.33 Level: 79.43	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	79.13		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	B		1.40	78.03		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-60mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.00 - 2.10	D		3.00	76.43		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-048
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526232.27 - 234919.67 Level: 81.42	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	81.12		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.60	80.82		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk. Grade Dm.	
	1.00 - 1.10	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	1
	1.70 - 1.80	ES					Vertical cracks from 0.80m.	2
				3.00	78.42		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-049
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526230.02 - 234918.57 Level: 81.68	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	81.38		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	0.90 - 1.00	B						
	1.40 - 1.50	D		1.30	80.38		Weak medium density white mottled creamy white CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				3.00	78.68		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-050 Sheet 1 of 1			
Project Name: Baldock				Project No. 2899		Co-ords: 234854.77 - 524482.60 Level: 69.25		Date 20/05/2024		
Location: Baldock, North Hertfordshire						Dimensions (m): 0.70		Scale 1:20		
Client: Urban & Civic						Depth 3.00		Logged HB		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.50 - 0.60	ES		0.20	69.05		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.			1
							Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular of chalk and chert.			
	0.90 - 1.00	D		0.60	68.65		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.			
	1.50 - 1.60	B		1.00	68.25		Weak low to medium density white mottled cream CHALK.			
	2.60 - 2.70	D								
										2
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
Remarks: No groundwater encountered.										
Stability: Stable										
Plant: 10T tracked excavator										

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-051 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234848.86 - 524651.17 Level: 70.77		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	70.47		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	0.80 - 0.90	D		1.10	69.67		Structureless CHALK composed of cream, brown and white mottled gravelly SILT. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint, Grade D.		
	1.80 - 1.90	B							
	2.50 - 2.60	D							
			3.00	67.77		End of Pit at 3.00m			
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log				TrialPit No TP-052 Sheet 1 of 1	
Project Name: Baldock				Project No. 2899		Co-ords: 234850.96 - 524742.49 Level: 69.35		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 2.80		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.30	69.05		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.40 - 0.50	ES					Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	0.90 - 1.00	B							
	1.60 - 1.70	D							
	2.50 - 2.60	D							
				2.80	66.55		End of Pit at 2.80m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-053 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234855.69 - 524877.70 Level: 66.42		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES							
	1.10 - 1.20	D							1
	1.60 - 1.70	B							
	2.20 - 2.30	D							2
									3
									4
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									



Trial Pit Log

Trial Pit No
TP-054
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525029.45 - 234856.00 Level: 64.38	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 2.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10 - 0.15	ES		0.30	64.08		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.
	0.50 - 0.60	ES		0.70	63.68		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.
	0.90 - 1.00	B					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.
	1.70 - 1.80	D		1.90	62.48		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.
				2.00	62.38		End of Pit at 2.00m

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-055
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525258.22 - 234851.48 Level: 65.35	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.70	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	65.05		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
				0.50	64.85		Loose yellowish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	D						1
	1.50 - 1.60	B						
				1.80	63.55		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.20 - 2.30	D						
				2.70	62.65		End of Pit at 2.70m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-056
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525333.02 - 234860.69 Level: 65.93	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	65.63		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.56 - 0.60	ES					Loose creamy brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.30 - 1.40	B		1.90	64.03		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (30-60mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	D		3.00	62.93		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-057
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525478.41 - 234873.66 Level: 67.31	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 2.70	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	67.01		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	0.80 - 0.90	B						
	2.00 - 2.10	D		2.00	65.31		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				2.70	64.61		End of Pit at 2.70m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-059
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525711.68 - 234856.15 Level: 69.29	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	68.98		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.00 - 1.10	B		1.60	67.68		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.80 - 1.90	D		3.00	66.28		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-060
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525858.38 - 234859.37 Level: 72.11	Date 10/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	71.81		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES		0.70	71.41		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	D		1.60	70.51		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.70 - 1.80	B					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.50 - 2.60	D		3.00	69.11			3
							End of Pit at 3.00m	4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-061
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525990.58 - 234852.12 Level: 73.21	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.40	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	72.91		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.70	72.51		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.10 - 1.20	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.90 - 2.00	B		2.10	71.11		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.30 - 2.40	D		2.40	70.81		End of Pit at 2.40m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





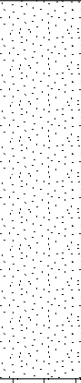
Trial Pit Log

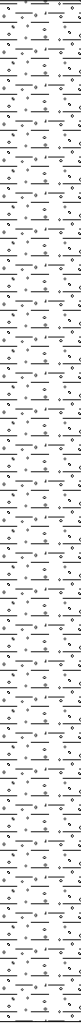
TrialPit No
TP-062
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526140.80 - 234850.89 Level: 77.02	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.80	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	76.72		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	D						
	1.70 - 1.80	B		1.80	75.22		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
				2.80	74.22		End of Pit at 2.80m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-064 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234780.02 - 524280.88 Level: 64.92		Date 20/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	64.62		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.60 - 0.70	D					Yellowish brown mottled white gravelly SAND. Sand is fine. Gravel is angular fine to coarse flint and chalk.		
	1.60 - 1.70	B		1.30	63.62		Structureless CHALK composed of white and cream mottled yellow gravelly SILT. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	2.40 - 2.50	D		3.00	61.92		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-065 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234775.11 - 524372.72 Level: 65.23		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.30	64.93		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.50 - 0.60	ES					Stiff dark brown mottled grey slightly sandy slightly gravelly CLAY with medium cobble content. Gravel is fine to coarse, sub-angular of chalk. Cobble is sub-rounded of chalk and flint.		
	1.30 - 1.40	B							
	2.20 - 2.30	D							
				3.00	62.23		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T Tracked Excavator									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-066 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234794.47 - 524440.65 Level: 66.48		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.25	66.23		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert and chalk.		
	0.60 - 0.70	D					Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	1.50 - 1.60	B		1.60	64.88		Weak low to medium density white mottled cream CHALK.		
	2.20	D		3.00	63.48		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log				TrialPit No TP-067 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234788.11 - 524581.13 Level: 67.45		Date 22/05/2024		
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20		
Client: Urban & Civic						Depth 3.00		Logged HB		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.10 - 0.15	ES		0.30	67.15		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.			1
	0.60 - 0.70	D		0.80	66.65		Structureless CHALK composed of cream, brown and white mottled gravelly SILT. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint, Grade D.			
	1.50 - 1.60	D					Weak low to medium density white mottled cream CHALK.			
	2.30 - 2.40	D		3.00	64.45		End of Pit at 3.00m			
Remarks: No groundwater encountered.										
Stability: Stable										
Plant: 10T tracked excavator										

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-068 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234786.92 - 524669.68 Level: 66.44		Date 22/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80 3.30		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.50 - 0.60	ES		0.30	66.14		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	1.40 - 1.50	D		1.10	65.33		Weak low to medium density white mottled cream CHALK.		
	2.20 - 2.30	D							
				3.00	63.44		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-069 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234776.75 - 524816.38 Level: 64.26		Date 17/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 2.40		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	63.96		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	0.90 - 1.00	D		1.10	63.16		Weak low to medium density white mottled cream CHALK.		
	1.40 - 1.50	B							
	2.30 - 2.40	D		2.40	61.86		End of Pit at 2.40m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-070 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234787.37 - 524883.93 Level: 63.70		Date 17/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90 3.10		Scale 1:20	
Client: Urban & Civic						Depth 2.60		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.40 - 0.50	ES		0.30	63.40		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
				0.50	63.20		Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular of chalk.		
	0.90 - 1.00	D		1.30	62.40		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
							Weak low to medium density white mottled cream CHALK.		
1.60 - 1.70	B		2.60	61.10		End of Pit at 2.60m			
Remarks: No groundwater encountered.							AGS		
Stability: Stable									
Plant: 10T tracked excavator									



Trial Pit Log

Trial Pit No
TP-071
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 524980.65 - 234765.21 Level: 62.48	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	62.18		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES		0.80	61.68		Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
	1.10 - 1.20	D					Structureless CHALK composed of white mottled cream and black gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade C.	1
	1.70 - 1.80	B						2
	2.30 - 2.40	D						3
				3.00	59.48		End of Pit at 3.00m	4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-072
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525103.38 - 234780.54 Level: 63.68	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	63.38		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.70 - 0.80	B		1.10	62.58		Structureless CHALK composed of loose white mottled light brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	D		2.10	61.58		Weak medium density white mottled black and creamy brown CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.30 - 2.40	D		3.00	60.68		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-073
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525172.81 - 234783.80 Level: 64.26	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.40 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	D		0.30	63.96		Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
				0.70	63.56		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.10 - 1.20	D						
				1.60	62.66		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.70 - 1.80	D						
	2.10 - 2.20	B						
				3.00	61.26		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-073A
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525404.23 - 234760.38 Level: 66.13	Date 14/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 2.70	Scale 1:20 Logged RK
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL with low root content. Gravel is angular to sub angular fine to coarse of chalk.	
	0.40 - 0.50	B		0.30	65.83		Very soft to soft light brown slightly sandy very gravelly CLAY. Gravel is angular to sub angular fine to coarse of chalk and flint.	
				0.60	65.53		Structureless CHALK recovered as slightly sandy slightly silty sub angular and sub rounded fine to coarse GRAVEL. Gravel is very weak and weak low and medium density light brown and cream. Matrix is light brown.	1
	1.00 - 1.10	D		1.10	65.03		Structureless CHALK composed of sub angular to angular mainly medium to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density white. Matrix is uncompact off white. Cobbles are very weak to weak low to medium density white.	
	2.00 - 2.20	B					End of Pit at 2.70m	2
				2.70	63.43			3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10T tracked excavator





Trial Pit Log

TrialPit No
TP-074
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525481.82 - 234773.18 Level: 67.23	Date 14/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged RK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	B					Brown friable slightly sandy slightly gravelly clayey TOPSOIL with low root content. Gravel is angular to sub angular fine to coarse of chalk. TOPSOIL	
	0.40 - 0.50	ES		0.30	66.93		Very soft to soft light brown slightly sandy slightly gravelly CLAY. Gravel is angular to sub angular fine to coarse of chalk and flint.	
				0.60	66.63		Structureless CHALK recovered as slightly sandy slightly silty sub angular and sub rounded fine to coarse GRAVEL. Gravel is very weak and weak low and medium density light brown and cream. Matrix is light brown.	1
	1.00 - 1.20	D						
	1.60 - 1.70	D		1.50	65.73		Structureless CHALK composed of sub angular to angular mainly medium to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density white. Matrix is uncompact off white. Cobbles are very weak to weak low to medium density white.	2
				3.00	64.23		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



Trial Pit Log

TrialPit No
TP-075
Sheet 1 of 1

Project Name: Baldock				Project No. 2899		Co-ords: 525557.66 - 234780.50 Level: 67.25		Date 14/11/2023	
Location: Baldock, North Hertfordshire						Dimensions (m): 3.00		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged RK	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.25	67.00		Brown friable slightly sandy slightly gravelly clayey TOPSOIL with low root content. Gravel is angular to sub angular fine to coarse of chalk.		
	0.40 - 0.50	B		0.50	66.75		Very soft to soft light brown slightly sandy slightly gravelly CLAY. Gravel is angular to sub angular fine to coarse of chalk and flint.		
	1.40 - 1.50	D					Structureless CHALK composed of sub angular to angular mainly medium to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density white. Matrix is uncompact off white. Cobbles are very weak to weak low to medium density white.		
	2.80 - 3.00	D		3.00	64.25		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									





Trial Pit Log

Trial Pit No
TP-076
Sheet 1 of 1

Project Name: Baldock				Project No. 2899		Co-ords: 525638.93 - 234780.42 Level: 67.68		Date 15/11/2023	
Location: Baldock, North Hertfordshire						Dimensions (m): 3.00		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged RK	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	67.38		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk. TOPSOIL		
	0.40 - 0.50	B					Structureless CHALK composed of sub angular to angular fine to coarse GRAVEL with high cobble content. Gravel is weak to moderately weak low to medium density cream. Matrix is uncompact cream. Cobbles are weak to medium strong low to medium density cream.		
	1.30 - 1.40	D		1.70	65.98		Structured CHALK composed of thinly bedded and closely fractured dense white chalk. Recovered as mainly medium to coarse GRAVEL with high cobble content. Gravel is weak to medium strong low to medium density white.		
	2.50 - 2.60	B							
				3.00	64.68		End of Pit at 3.00m		

Remarks: Groundwater not encountered.

Stability: Stable

Plant: 10T tracked excavator



Trial Pit Log

Trial Pit No
TP-078
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525976.59 - 234771.85 Level: 72.26	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	71.96		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.20 - 1.30	D		1.10	71.16		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-50mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	1.90 - 2.00	B						2
				3.00	69.26		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-079
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 526021.21 - 234790.08 Level: 72.37	Date 10/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	72.07		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		0.70	71.67		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.30 - 1.40	B		1.30	71.07		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	2.10 - 2.20	D						2
				3.00	69.37		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-080
Sheet 1 of 1

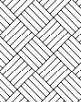
Project Name: Baldock	Project No. 2899	Co-ords: 526141.37 - 234797.19 Level: 75.51	Date 08/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

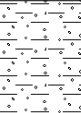
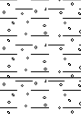
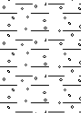
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	75.20		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.10 - 1.20	B		1.30	74.20		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	D		3.00	72.50		End of Pit at 3.00m	3
								4

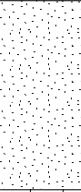
Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-081 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234715.86 - 524357.82 Level: 61.60		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 2.80		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	61.30		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.60 - 0.70	B					Weak low to medium density white mottled cream CHALK.		
	1.60 - 1.70	D							
	2.30 - 2.40	D							
				2.80	58.80		End of Pit at 2.80m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T Tracked Excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-082 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234713.41 - 524510.81 Level: 60.60		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80 3.10		Scale 1:20	
Client: Urban & Civic						Depth 2.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.40 - 0.50	ES		0.30	60.30		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
				0.60	60.00		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	0.90 - 1.00	B					Weak low to medium density white mottled cream CHALK.		
							1.90 - 2.00	D	
2.00	58.60								
							1		
							2		
							3		
							4		
Remarks: No groundwater encountered.									
Stability: Sides collapsing Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-083 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234710.46 - 524661.70 Level: 61.48		Date 17/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 2.70		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES					Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.30 - 0.40	D		0.30	61.18		Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is angular to sub-angular of chalk and chert.		
	0.50 - 0.60	D		0.40	61.08		Firm brown mottled white gravelly SAND. Gravel is fine to coarse, sub-angular of chalk.		
				0.60	60.88		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	0.90 - 1.00	D							
	1.60 - 1.70	B		1.70	59.78		Weak low to medium density white mottled cream CHALK.		
	2.40 - 2.50	D		2.70	58.78		End of Pit at 2.70m		
Remarks: No groundwater encountered.									
Stability: Slight side collapse Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-084 Sheet 1 of 1				
Project Name: Baldock				Project No. 2899		Co-ords: 234706.60 - 524800.36 Level: 60.77		Date 17/05/2024			
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20			
Client: Urban & Civic						Depth 2.80		Logged HB			
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
	Depth	Type	Results								
	0.30 - 0.40	ES		0.30	60.47		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.			1	
	0.70 - 0.80	D		0.80	59.97		Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk and chert.				
							Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk.				
							Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.				
	1.30 - 1.40	D		1.30	59.47					2	
1.90 - 2.00	B										
2.70 - 2.80	D			2.80	57.97					3	
							End of Pit at 2.80m				
											4
Remarks: No groundwater encountered.											
Stability: Stable											
Plant: 10T tracked excavator											

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-084A Sheet 1 of 1			
Project Name: Baldock				Project No. 2899		Co-ords: 234693.51 - 524893.59 Level: 61.74		Date 22/05/2024		
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20		
Client: Urban & Civic						Depth 2.70		Logged HB		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.10 - 0.15	ES		0.30	61.44		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.			1
	0.70 - 0.80	D		0.80	60.94		Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.			
							Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.			
							Weak low to medium density white mottled cream CHALK.			
	1.20 - 1.30	D		1.40	60.34					
1.90 - 2.00	B	2.70	59.04	End of Pit at 2.70m						
										2
										3
										4
Remarks: No groundwater encountered.										
Stability: Stable										
Plant: 10T tracked excavator										



Trial Pit Log

Trial Pit No
TP-085
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525028.17 - 234738.48 Level: 63.19	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	62.89		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1
	0.40 - 0.50	D					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	ES		1.20	61.99		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	2
	1.50 - 1.60	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-60mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	2.10 - 2.20	B		3.00	60.19		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-086
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525100.71 - 234710.74 Level: 63.84	Date 06/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 1.90	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20 - 0.25	ES		0.30	63.54		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk and chert.	
	0.50 - 0.60	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.00 - 1.10	D		0.90	62.94		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade D.	1
	1.60 - 1.70	B		1.50	62.34		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
	1.80 - 1.90	D		1.90	61.94		End of Pit at 1.90m	2
								3
								4

Remarks: No groundwater encountered.

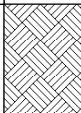
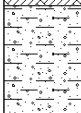
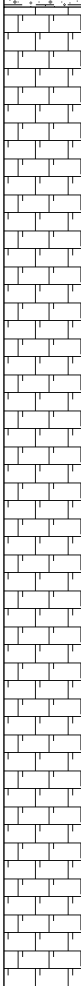
Stability: Undercut at 1.10m until end
Plant: 10 tonnes tracked excavator



Trial Pit Log

TrialPit No
TP-087
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525503.27 - 234686.03 Level: 65.50	Date 15/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.20	Scale 1:20
Client: Urban & Civic			Logged RK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.20	D		0.30	65.20		Brown friable slightly sandy slightly gravelly clayey TOPSOIL with low root content. Gravel is angular to sub angular fine to coarse chalk and occasional flint. TOPSOIL	1
	0.40 - 0.50	ES					Soft light brown friable slightly sandy slightly gravelly CLAY. Gravel is angular to sub rounded of chalk and flint.	
	1.40 - 1.50	B					Structureless CHALK composed of sub angular to angular fine to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density white. Matrix is uncompact white. Cobbles are weak to medium strong low to medium density cream.	
	2.60 - 2.70	D		3.20	62.30	End of Pit at 3.20m	3	
								4



Trial Pit Log

Trial Pit No
TP-088
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525704.17 - 234713.98 Level: 68.00	Date 15/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 1.80	Scale 1:20 Logged RK
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	67.70		Brown friable slightly sandy slightly gravelly clayey TOPSOIL with low root content. Gravel is angular to sub angular fine to coarse chalk and occasional flint. TOPSOIL	1
	0.50 - 0.60	D					Structureless CHALK composed of sub angular to angular fine to coarse GRAVEL with high cobble content. Gravel is very weak to medium strong low to medium density white. Matrix is uncompact white. Cobbles are weak to medium strong low to medium density cream.	
	1.00 - 1.20	B		1.80	66.20		End of Pit at 1.80m	2
								3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



Trial Pit Log

Trial Pit No
TP-089
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525763.27 - 234724.01 Level: 68.93	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 2.50	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.40	68.53		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	
	1.00 - 1.10	B						1
	2.10 - 2.20	D		2.50	66.43			2
							End of Pit at 2.50m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-090
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525874.56 - 234743.84 Level: 69.18	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	68.88		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
				0.50	68.68		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	0.80 - 0.90	D						
	1.70 - 1.80	B		1.70	67.48		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.10 - 2.20	D						
				3.00	66.18		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-091
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525993.60 - 234733.87 Level: 71.16	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	70.86		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		0.60	70.56		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	1.10 - 1.20	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.20 - 1.30	B						
				1.50	69.66		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-50mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.30 - 2.40	D		3.00	68.16			
							End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-096 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234646.78 - 524289.39 Level: 57.65		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 3.10 x 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	57.35		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.60 - 0.70	B					Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular of chert.		
				1.00	56.65	Firm yellowish brown mottled white gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk and flint.			
						1.40 - 1.50	D		
	2.40 - 2.50	D			3.00			54.65	End of Pit at 3.00m
Remarks: Groundwater strike at 3.00m.									
Stability: Stable									
Plant: 10T tracked excavator									



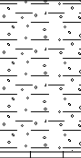
Trial Pit Log

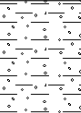
Trial Pit No
TP-097
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 234631.11 - 524354.67 Level: 56.69	Date 16/05/2024
Location: Baldock, North Hertfordshire		Dimensions (m): 0.90 Depth 2.20	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.40 - 0.50	ES		0.30	56.39		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.
							Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular of chert.
	0.80 - 0.90	D		0.60	56.09		Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.
	1.30 - 1.40	B					
				2.20	54.49		End of Pit at 2.20m

Remarks: Groundwater strike at 2.00m	
Stability: Stable	
Plant: 10T tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-098 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234626.14 - 524438.98 Level: 57.48		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80 3.10		Scale 1:20	
Client: Urban & Civic						Depth 2.80		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	57.18		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chert.		
	0.60 - 0.70	D		0.70	56.78		Weak low to medium density white mottled cream CHALK.		
	1.40 - 1.50	B							
	2.30 - 2.40	D							
				2.80	54.68		End of Pit at 2.80m		
Remarks: Groundwater strike at 2.70m.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-099 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234638.86 - 524522.29 Level: 58.27		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.50 - 0.60	ES		0.30	57.97		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
				0.60	57.67		Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium, sub-angular of chert.		
	1.20 - 1.30	D		1.70	56.57		Yellowish brown mottled white gravelly SAND. Sand is fine. Gravel is angular fine to coarse flint and chalk.		
							Weak low to medium density white mottled cream CHALK.		
	2.60 - 2.70	D		3.00	55.27		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T Tracked Excavator									
									



Trial Pit Log

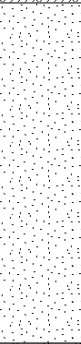
Trial Pit No
TP-100
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 234641.13 - 524579.39 Level: 58.38	Date 16/05/2024
Location: Baldock, North Hertfordshire		Dimensions (m): 0.80 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50 - 0.60	ES		0.30	58.08		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
							Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular of chert.	
	1.00 - 1.10	D		0.70	57.68		Yellowish brown mottled white gravelly SAND. Sand is fine. Gravel is angular fine to coarse flint and chalk.	1
	1.90 - 2.00	B		1.70	56.68		Weak low to medium density white mottled cream CHALK.	2
	2.50 - 2.60	D						
				3.00	55.38		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T Tracked Excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-101 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 524654.67 - 234640.21 Level: 58.43		Date 21/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 2.70		Scale 1:20	
Client: Urban & Civic						Depth 3.00		0.70 Logged SJF	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.30	58.13		Brown slightly sandy slightly gravelly clay TOPSOIL. Gravel is angular to sub-angular fine to coarse chalk and occasional flint.		
				0.45	57.98		Brown clayey slightly gravelly SAND. Gravel is angular fine to coarse of chalk and flint.		
							Structureless CHALK composed of silty angular fine to coarse GRAVEL of extremely to very weak low to medium density chalk. (Grade Dc)		
				3.00	55.43		End of Pit at 3.00m		
Remarks: No groundwater encountered. Terminated at scheduled depth.									
Stability: Stable Plant: 10 tonne tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-102 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234637.18 - 524711.45 Level: 58.99		Date 15/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80 3.00		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	D		0.20	58.79		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	0.70 - 0.80	ES							
	1.30 - 1.40	D		1.10	57.89		Structureless CHALK composed of cream and white mottled gravelly SILT. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk, Grade D.		
	1.50 - 1.60	B							
				2.00	56.99		Weak low to medium density white mottled cream CHALK.		
	2.50 - 2.60	D		3.00	55.99		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-103 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234656.27 - 524793.11 Level: 60.33		Date 17/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	60.03		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.60 - 0.70	D					Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	1.20 - 1.30	B							
	2.00 - 2.10	D							
	2.80 - 2.90	D		3.00	57.33		End of Pit at 3.00m		
Remarks: No groundwater encountered.									
Stability: Slight side collapse Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-104 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234636.56 - 524880.12 Level: 62.54		Date 22/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 1.70		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	62.24		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
							Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	0.80 - 0.90	D		0.70	61.84		Weak low to medium density white mottled cream CHALK.		
	1.40 - 1.50	D		1.70	60.84		Sand pocket at 1.40m		
							End of Pit at 1.70m		
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-105 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234666.63 - 524937.06 Level: 62.89		Date 22/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90 3.20		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.70 - 0.80	ES		0.30	62.59		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
				0.90	61.99		Structureless CHALK composed of white and brown mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	1.10 - 1.20	B							Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.
				3.00	59.89				End of Pit at 3.00m

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10T tracked excavator





Trial Pit Log

TrialPit No
TP-106
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525259.32 - 234616.89 Level: 63.05	Date 31/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.40 Depth 3.10	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	62.75		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk	
				0.50	62.55		Loose creamy brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	D						1
	1.40 - 1.50	B						
				1.90	61.15		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-60mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.40 - 2.50	D						
				3.10	59.95		End of Pit at 3.10m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-107
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525341.24 - 234629.19 Level: 63.62	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.40 - 0.50	ES		0.30	63.32		Soft to firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
	0.80 - 0.90	B		0.60	63.02		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
								2
	2.30 - 2.40	D		2.20	61.42		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (40-70mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	3
				3.00	60.62		End of Pit at 3.00m	4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-110
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525552.86 - 234636.69 Level: 65.82	Date 15/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 1.50	Scale 1:20 Logged RK
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10 - 0.15	ES		0.30	65.52		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk. TOPSOIL
	0.40 - 0.50	B					Structureless CHALK composed of sub angular to angular fine to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density cream. Matrix is uncompact cream. Cobbles are weak to medium strong low to medium density cream.
				1.50	64.32		End of Pit at 1.50m

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



Trial Pit Log

Trial Pit No
TP-111
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525623.20 - 234637.50 Level: 66.61	Date 15/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 2.00	Scale 1:20 Logged RK
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20 - 0.30	ES		0.30	66.31		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk. TOPSOIL	
	1.00 - 1.20	B					Structureless CHALK composed of sub angular to angular fine to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density cream. Matrix is uncompact cream. Cobbles are weak to medium strong low to medium density cream.	1
	1.80 - 2.00	D		2.00	64.61		End of Pit at 2.00m	2
								3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



Trial Pit Log

Trial Pit No
TP-112
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525701.42 - 234648.65 Level: 67.49	Date 15/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 2.00	Scale 1:20
Client: Urban & Civic			Logged RK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub rounded fine to coarse chalk and flint. TOPSOIL	
	0.40 - 0.50	B		0.30	67.19		Structureless CHALK recovered as slightly sandy silty sub angular and sub rounded fine to coarse GRAVEL. Gravel is very weak and weak low and medium density light brown and cream. Matrix is light brown.	
				0.60	66.89		Structureless CHALK composed of sub angular to angular fine to coarse GRAVEL with high cobble content. Gravel is very weak to weak low to medium density cream. Matrix is uncompact cream. Cobbles are weak to medium strong low to medium density cream.	1
	1.50 - 1.60	D					End of Pit at 2.00m	2
				2.00	65.49			3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



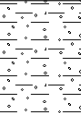
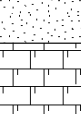
Trial Pit Log

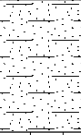
Trial Pit No
TP-113
Sheet 1 of 1

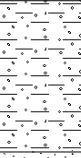
Project Name: Baldock	Project No. 2899	Co-ords: 525846.29 - 234660.35 Level: 67.96	Date 09/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		0.40	67.56		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	B		0.60	67.36		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	1
	1.40 - 1.50	D						
				2.10	65.86		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.30 - 2.40	D		3.00	64.96			3
							End of Pit at 3.00m	4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-117 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234564.00 - 524572.62 Level: 61.37		Date 16/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.80		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	61.07		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint, chert and brick.		
	0.40 - 0.50	D					Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium, sub-angular of chert.		
							Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	1.00 - 1.10	B		1.60	59.77		Structureless CHALK composed of cream and white mottled silty GRAVEL. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk, Grade D.		
	1.80 - 1.90	D					Weak low to medium density white mottled cream CHALK.		
	2.20 - 2.30	D					End of Pit at 3.00m		
				3.00	58.37				
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T Tracked Excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-118 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234586.66 - 524682.81 Level: 59.18		Date 14/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 3.00		Scale 1:20	
Client: Urban & Civic						Depth 3.10		Logged SJF	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.20	ES		0.25	58.92		Dark grey brown friable slightly sandy slightly gravelly clay TOPSOIL. Gravel is angular to sub-rounded fine to coarse flint.		
	0.40 - 0.60	B		0.60	58.58		Loose orange brown gravelly very clayey SAND. Gravel is sub-rounded fine to coarse chalk and occasional flint.		
	0.50 - 0.60	ES					Structureless CHALK composed of white mottled brown and orange brown silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk and rare black flint with localised pockets of orange brown silty sand. (Grade Dc)		
	1.30 - 1.50	B		2.00	57.18		Structureless CHALK composed of white gravelly SILT. Gravel is angular fine to coarse extremely weak low to medium density chalk and rare black flint. (Grade Dm)		
			3.10	56.08		End of Pit at 3.10m			
Remarks: No groundwater encountered. Terminated at scheduled depth.									
Stability: Stable Plant: 10 tonne tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-119 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234556.80 - 524731.90 Level: 59.28		Date 15/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 3.00		Scale 1:20	
Client: Urban & Civic						Depth 3.00		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.15	ES		0.30	58.98		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
	0.50 - 0.60	D					Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert and chalk.		
	0.90 - 1.00	D		0.70	58.58		Cream, brown and white mottled gravelly silty SAND. Gravel is angular fine to coarse flint and chalk.		
	1.50 - 1.60	B							
	2.20 - 2.30	D		2.00	57.28		Structureless CHALK composed of cream, brown and white mottled gravelly SILT. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint, Grade D.		
			3.00	56.28		End of Pit at 3.00m			
Remarks: No groundwater encountered.									
Stability: Stable Plant: 10T tracked excavator									
									

 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-120 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234561.01 - 524933.04 Level: 62.95		Date 22/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 0.90		Scale 1:20	
Client: Urban & Civic						Depth 1.90		Logged HB	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.60 - 0.70	ES		0.30	62.65		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
				1.00	61.95		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
	1.40 - 1.50	B					1.90	61.05	
				End of Pit at 1.90m					
Remarks: No groundwater encountered.									
Stability: Stable									
Plant: 10T tracked excavator									



Trial Pit Log

Trial Pit No
TP-121
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525121.30 - 234562.19 Level: 62.14	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	61.84		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.70	61.44		Soft brown slightly sandy slight gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint and chalk.	
	1.00 - 1.10	D		1.35	60.79		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.70 - 1.80	D					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (40-80mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.90 - 2.00	B		3.00	59.14		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

Trial Pit No
TP-122
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525254.91 - 234555.96 Level: 63.72	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.05	Scale 1:20
Client: Urban & Civic			Logged HB

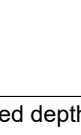
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	63.42		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.80 - 0.90	ES		1.00	62.72		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.40 - 1.50	B					Weak medium density white mottled brown and black CHALK. Fractures are horizontal and closely spaced (20-60mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	1.90 - 2.00	D		3.05	60.67		End of Pit at 3.05m	3
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator



 SHADBOLT GROUP DESIGN MANAGE CONSTRUCT				Trial Pit Log			TrialPit No TP-130 Sheet 1 of 1		
Project Name: Baldock				Project No. 2899		Co-ords: 234500.50 - 524718.62 Level: 60.25		Date 14/05/2024	
Location: Baldock, North Hertfordshire						Dimensions (m): 2.90		Scale 1:20	
Client: Urban & Civic						Depth 3.10		Logged SJF	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10 - 0.20	ES		0.25	60.00		Dark grey brown friable slightly sandy slightly gravelly clay TOPSOIL. Gravel is angular to sub-rounded fine to coarse flint.		
	0.30 - 0.40	B					Loose orange brown clayey gravelly SAND. Gravel is sub-rounded fine to coarse chalk and occasional flint.		
							Structureless CHALK composed of white mottled orange brown silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk and rare black flint with localised pockets of orange brown silty sand. (Grade Dc)		
	1.30 - 1.50	B		0.60	59.65				
									
									
									
									
									
									
									
									
									
	2.90 - 3.10	D		3.10	57.15		End of Pit at 3.10m		
Remarks: No groundwater encountered. Terminated at scheduled depth.									
Stability: Stable Plant: 10 tonne tracked excavator									
									



Trial Pit Log

Trial Pit No
TP-131
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 234451.30 - 524810.34 Level: 60.91	Date 22/05/2024
Location: Baldock, North Hertfordshire		Dimensions (m): 0.90 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30 - 0.40	ES		0.30	60.61		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
							Soft reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chert and chalk.	
	1.00 - 1.10	D		0.90	60.01		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.	1
	1.80 - 1.90	B		1.50	59.41		Weak low to medium density white mottled cream CHALK.	2
	2.60 - 2.70	D		3.00	57.91		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



Trial Pit Log

TrialPit No
TP-133
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525018.24 - 234506.60 Level: 61.65	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	61.35		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	D		1.00	60.65		Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk and chert.	1
	1.20 - 1.30	B		1.80	59.85		Loose orangish brown mottled white gravelly SAND with medium content of cobbles. Gravel is fine to coarse, angular to sub-angular of chalk and flint. Cobble is sub-angular to sub-rounded of flint.	
	1.90 - 2.00	D		3.00	58.65		Weak medium density white mottled light brown CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
							End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

TrialPit No
TP-134
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525132.85 - 234509.34 Level: 62.78	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.40	62.38		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk and chert.	1
	0.50 - 0.60	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.70 - 0.80	D						
	1.50 - 1.60	D		1.50	61.28		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	2
	1.60 - 1.70	B					Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-60mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
				2.10	60.68			3
				3.00	59.78		End of Pit at 3.00m	
								4

Remarks: No groundwater encountered.

Stability: Stable

Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-135
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525274.83 - 234488.91 Level: 64.37	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.10 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk and chert.	
	0.40 - 0.50	ES		0.30	64.07		Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
				0.60	63.77		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	D						1
	1.50 - 1.60	B						
				2.00	62.37		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-50mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
	2.30 - 2.40	D						
				3.00	61.37		End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-136
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525402.62 - 234492.56 Level: 65.48	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.20 Depth 2.90	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.40	65.08		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk and chert.	
	0.50 - 0.60	ES					Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	1.50 - 1.60	D		1.40	64.08		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk. Grade C.	2
	1.90 - 2.00	B						
	2.60 - 2.70	D		2.50	62.98		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	
				2.90	62.58		End of Pit at 2.90m	3
								4

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10 tonnes tracked excavator	



Trial Pit Log

Trial Pit No
TP-137
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525519.36 - 234462.99 Level: 65.94	Date 29/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 1.80 Depth 1.70	Scale 1:20
Client: Urban & Civic			Logged RP

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.25	ES					Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50	ES		0.40	65.54		Light brown friable very sandy slightly gravelly CLAY/ Clayey SAND. Gravel is fine to medium subangular chalk.	
				0.60	65.34		Brownish cream very sandy gravel of fine to coarse CHALK with rare flint/chert.	
	1.10	B					End of Pit at 1.70m	
				1.70	64.24			

Remarks: No groundwater encountered.	
Stability: Stable	
Plant: 10T tracked excavator	



Trial Pit Log

Trial Pit No
TP-142
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525027.58 - 234417.34 Level: 62.86	Date 07/11/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.00 Depth 3.00	Scale 1:20
Client: Urban & Civic			Logged HB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	D		0.30	62.56		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.50 - 0.60	ES		0.70	62.16		Soft to firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
	1.00 - 1.10 1.10 - 1.20	D B		1.80	61.06		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	1
	2.00 - 2.10	D		3.00	59.86		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-30mm) open and compact light brown and black silt-sized comminuted chalk. Grade B.	2
							End of Pit at 3.00m	3
								4

Remarks: No groundwater encountered.

Stability: Stable
Plant: 10 tonnes tracked excavator





Trial Pit Log

TrialPit No
TP-143
Sheet 1 of 1

Project Name: Baldock	Project No. 2899	Co-ords: 525172.78 - 234418.67 Level: 64.39	Date 30/10/2023
Location: Baldock, North Hertfordshire		Dimensions (m): 3.50 Depth 3.30	Scale 1:20 Logged HB
Client: Urban & Civic			

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10 - 0.15	ES		0.30	64.09		Brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	
	0.60 - 0.70	ES					Soft to firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
	0.90 - 1.00	B		1.10	63.29		Loose orangish brown and white mottled gravelly SAND. Gravel is fine to coarse, sub-angular to sub-rounded of chalk and flint.	1
	1.40 - 1.50	D						2
	2.90 - 3.00	D		2.60	61.79		Weak medium density white mottled black CHALK. Fractures are horizontal and closely spaced (20-40mm) open and compact light brown and black silt-sized comminuted chalk. Grade C.	3
				3.30	61.09		End of Pit at 3.30m	4

Remarks: No groundwater encountered.	
Stability: Stable Plant: 10 tonnes tracked excavator	



Windowless Sample Log

Borehole No.

WS-01

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525264E - 235151N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 72.23

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES					Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
		0.40	D		0.30 0.45	71.93 71.78		Firm friable gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk and chert.	
		1.00	SPT	N=35 (3,4/6,8,9,12)				Cream and white mottled clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.70	SPT	N=52 (7,9/14,14,12,12)					
					2.15	70.08		End of Borehole at 2.15m	

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-02

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525556E - 235067N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 72.54

Scale
1:25

Client: Urban & Civic

Dates: 07/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES					Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
		0.35	D		0.25	72.29		Firm friable slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk.	
					0.45	72.09		Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.00	SPT	N=30 (3,5/5,6,9,10)					
		1.50	SPT	49 (11,16/14,15,20,)					
		1.70	D						
					1.85	70.69		End of Borehole at 1.85m	

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-03

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525961E - 235059N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 77.90

Scale
1:25

Client: Urban & Civic

Dates: 13/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.30	77.60		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.90 - 1.00 1.00	D SPT	N=27 (4,6/8,6,6,7)				Structureless CHALK composed of loose white mottled creamy brown and orangish brown silty gravel. Gravel is consists of very weak low density angular to sub-angular, fine to coarse chalk.	
		1.90 - 2.00 2.00	D SPT	N=35 (6,9/11,7,9,8)	3.00	74.90		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	3
		2.70 - 2.80 3.00	D SPT	N=27 (4,5/5,5,6,11)					
		3.70 - 3.80 4.00	D SPT	N=47 (7,6/6,7,13,21)	4.45	73.45		End of Borehole at 4.45m	4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-04

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 524971E - 234999N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 68.94

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES					Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
		0.40	D		0.30 0.45	68.64 68.49		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium of chalk.	
		1.00	SPT	N=21 (2,2/2,3,7,9)				ream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	1
		1.70	SPT	41 (13,13/25,16,,)					
					2.00	66.94		End of Borehole at 2.00m	2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-05

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525108E - 235010N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 67.02

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.30	66.72		Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	1
								Firm brown slightly sandy GRAVEL. Gravel is fine to coarse, sub-angular of chalk.	
		1.00	SPT	N=8 (3,3/2,2,2,2)	1.00	66.02		Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.50	D						
		2.00	SPT	46 (8,20/26,20,,)	2.20	64.82		End of Borehole at 2.20m	
									2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-06

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525404E - 235008N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 69.45

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES					Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
		0.40	D		0.30	69.15		Firm brown sandy gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk and chert.	
					0.50	68.95		Cream and white mottled clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.00	SPT	N=39 (3,4/7,8,12,12)					1
		1.50	SPT	25 (16,25/25,,)					
					1.70	67.75		End of Borehole at 1.70m	2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-07

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525815E - 234988N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 73.15

Scale
1:25

Client: Urban & Civic

Dates: 13/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES					Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
					0.30	72.85		Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
					0.50	72.65		Structureless CHALK composed of white mottled creamy brown gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.00 - 1.10 1.00	D SPT	N=14 (2,2/2,2,3,7)	1.10	72.05		Structureless CHALK composed of white mottled creamy brown and black gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	1
		1.50 - 1.60 1.65	D SPT	N=51 (8,12/15,13,23,0)					
					2.03	71.12		End of Borehole at 2.03m	2
									3
									4
									5

Remarks

Potential water strike at 1.95m.





Windowless Sample Log

Borehole No.

WS-09

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525235E - 234954N

Hole Type
WLS

Location: Baldock, North Hertfordshire

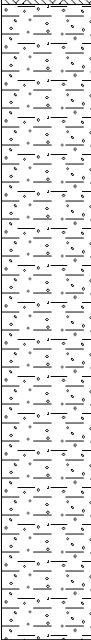
Level: 66.66

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES		0.30	66.36		Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
		0.70	D					Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk.	
		1.00	SPT	N=39 (2,4/5,6,13,15)	2.40	64.26			1
		2.00	SPT	68 (12,17/18,19,31,)					2
								End of Borehole at 2.40m	3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-10

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525550E - 234919N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 68.66

Scale
1:25

Client: Urban & Civic

Dates: 07/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES					Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
					0.30 0.35	68.36 68.31		Firm brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse, sub-angular of chalk. Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		0.60	D						
		1.00	SPT	N=27 (2,2/2,4,7,14)					1
		1.50	SPT	0 (25,50/,,)					
					1.64	67.02		End of Borehole at 1.64m	
									2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-11

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525726E - 234911N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 70.11

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.30	69.81		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.90 - 1.00 1.00	D SPT		1.00	69.11		Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
		1.30 - 1.40 1.40	D SPT	N=55 (12,16/14,13,11,17)	1.85	68.26		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
								End of Borehole at 1.85m	
									2
									3
									4
									5

Remarks

Potential groundwater at 1.00m.





Windowless Sample Log

Borehole No.

WS-12

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525939E - 234929N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 73.69

Scale
1:25

Client: Urban & Civic

Dates: 13/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 0.40	ES		0.30 0.40	73.39 73.29	 	Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
		1.00 - 1.10	SPT D	N=13 (1,2,2,2,3,6)			  	Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint. Structureless CHALK composed of white mottled creamy brown gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.50 - 1.60	D				       		
		1.60	SPT	N=75 (16,20/24,13,14,24)	2.05	71.64	                   		
								End of Borehole at 2.05m	

Remarks

Potential groundwater at 1.50m.





Windowless Sample Log

Borehole No.

WS-13

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 526082E - 234954N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 77.93

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description									
		Depth (m)	Type	Results													
		0.10 - 0.15	D	N=39 (4,5/6,7,10,16)	0.30	77.63		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1								
		0.40 - 0.50	ES					Loose brown mottled white sandy GRAVEL. Gravel is fine to coarse, angular to sub-angular of chalk.									
		0.90 - 1.00	D		N=54 (12,13/13,13,15,13)	1.40	76.53			Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.							
			1.00								SPT						
		1.40	SPT														
			1.50 - 1.60								D						
												1.85	76.08		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.		
		End of Borehole at 1.85m									2						
								3									
								4									
								5									

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-14

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234836E - 524603N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 70.31

Scale
1:25

Client: Urban & Civic

Dates: 14/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D		0.15	70.16		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
		0.30 - 0.40	ES					Yellowish brown mottled white gravelly SAND. Sand is fine. Gravel is angular fine to coarse flint and chalk.	
					0.50	69.81			
		0.80 - 0.90	D					Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.	
		1.00	SPT	N=10 (1,2/3,2,2,3)	1.00	69.31		Weak low to medium density white mottled cream CHALK.	1
		1.50 - 1.60	D						
		2.00	SPT	N=4 (1,1/2,1,0,1)					2
		3.00	SPT	N=20 (3,5/5,5,5,5)					3
		3.20 - 3.30	D						
		4.00	SPT	N=26 (4,4/8,6,7,5)					4
					4.45	65.86		End of Borehole at 4.45m	5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-15

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234853E - 524816N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 67.84

Scale
1:25

Client: Urban & Civic

Dates: 15/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES	N=13 (2,2/2,2,4,5)	0.30	67.54		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.50 - 0.60	D		0.70	67.14		Firm brown and white mottled slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of weathered chalk.	
		1.00	SPT		1.20	66.64		Structureless CHALK composed of cream and white mottled gravelly SILT. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.30 - 1.40	D	N=61 (9,16/18,14,13,16)	2.45	65.39		Weak low to medium density white mottled cream CHALK.	2
		2.00	SPT					End of Borehole at 2.45m	
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-16

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 524949E - 234834N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 64.72

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.25	64.47		Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	1
		0.40	D		0.50	64.22		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk.	
		1.00	SPT	N=15 (3,4/3,3,4,5)				Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.60	SPT	25 (25,25/25,...)				End of Borehole at 1.85m	
					1.85	62.87			2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-17

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525115E - 234866N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 64.31

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.30	64.01		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
		0.60 - 0.70	D		0.70	63.61		Loose brown and white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk.	
		1.00	SPT	N=14 (3,3/4,3,4,3)				Structureless CHALK composed of loose white mottled black silty gravel. Gravel is consists of weak medium density angular to sub-angular, fine to coarse chalk.	1
		1.50 - 1.60	D						
		1.90	SPT	N=60 (8,13/26,34,0,0)	2.05	62.26			2
								End of Borehole at 2.05m	3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-18

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525424E - 234842N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 66.40

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.30	66.10		Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine sub angular chalk and chert.	1
		0.60	ES					Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.00	SPT	N=12 (4,4/4,3,3,2)	2.05	64.35			2
		2.00	SPT	0 (10,20/,,,))					
								End of Borehole at 2.05m	3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-19

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525583E - 234842N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 67.86

Scale
1:25

Client: Urban & Civic

Dates:

Logged By

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
									1
									2
									3
									4
									5

Remarks





Windowless Sample Log

Borehole No.

WS-20

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525777E - 234836N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 69.85

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 15.00	D	N=13 (4,4/4,2,2,5)	0.30	69.55		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
								Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular of chalk.	
		0.60 - 0.70	ES		0.70	69.15		Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
		0.90 - 1.00	D	N=54 (9,11/12,15,13,14)	1.00	68.85		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.00	SPT						
		1.50 - 1.60	D						
		1.80	SPT		2.25	67.60		End of Borehole at 2.25m	2
									3
									4
									5

Remarks

Potential groundwater at 2.00m.





Windowless Sample Log

Borehole No.

WS-21

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 526228E - 234843N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 78.46

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES	N=24 (2,7/1,9,7,7)	0.30	78.16		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
					0.60	77.86		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
		0.90 - 1.00 1.00	D SPT					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak low density angular to sub-angular, fine to coarse chalk.	
		1.50 - 1.60	D	N=56 (8,9/15,14,12,15)	1.50	76.96		Structureless CHALK composed of white mottled cream and orangish brown gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	2
		1.80	SPT						
					2.25	76.21		End of Borehole at 2.25m	3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-22

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525044E - 234758N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 63.03

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES		0.35	62.68		Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	1
					0.60	62.43		Cream and white clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		0.70	D					Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	
		1.00	SPT	N=17 (4,4/4,7,4,2)				End of Borehole at 1.95m	
		1.50	SPT	N=78 (18,26/15,16,23,24)	1.95	61.08			
									2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-23

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525243E - 234802N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 64.82

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
		0.10 - 0.15	D	N=19 (3,6/6,5,5,3)	0.30	64.52		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.					
		0.40 - 0.50	D			64.32		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.					
		0.80 - 0.90	ES		1.80	63.02		Loose white and brown mottled gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.					
		1.00	SPT	N=53 (10,30/33,20,0,0)									
		1.50 - 1.60	D							<i>Sand pocket at 1.50m.</i>			
		1.80 - 1.90	D										
		1.90	SPT	2.05	62.77		Structureless CHALK composed of loose white mottled black silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	2					
		End of Borehole at 2.05m											



Windowless Sample Log

Borehole No.

WS-24

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525709E - 234778N

Hole Type
WLS

Location: Baldock, North Hertfordshire

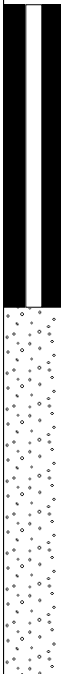
Level: 68.68

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES	N=8 (3,3/2,1,2,3)	0.30	68.38		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.40 - 0.50	D					Structureless CHALK composed of loose brown mottled white sandy gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		0.90 - 1.00	D					Structureless CHALK composed of white and brown mottled gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.00	SPT		1.00	67.68		Structureless CHALK composed of loose white mottled off white silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		1.50 - 1.60	D		2.22	66.46		End of Borehole at 2.22m	
		2.00	SPT	N=50 (12,17/24,26,0,0)				2	
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-25

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 526075E - 234779N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 73.65

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D	N=9 (2,2/2,2,2,3)	0.30	73.35		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.90 - 1.00 1.00	ES SPT		1.10	72.55		Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		1.80 - 1.90 2.00	D SPT	N=50 (6,7/16,10,10,14)	2.45	71.20		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	2
								End of Borehole at 2.45m	3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-27

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234727E - 524423N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 61.77

Scale
1:25

Client: Urban & Civic

Dates: 14/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.10	61.67		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.80 - 9.00	D					Structureless CHALK composed of white mottled cream silt GRAVEL. Gravel is fine to coarse, sub-angular of chalk.	
		1.00	SPT	N=64 (7,12/18,14,17,15)					
		1.50	SPT	0 (15,16/,,)					
					1.65	60.12		End of Borehole at 1.65m	2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-28

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234700E - 524593N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 60.19

Scale
1:25

Client: Urban & Civic

Dates: 14/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.40 - 0.50	ES	N=21 (3,7/5,4,6,6)	0.20	59.99		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.		
					0.50	59.69		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium, sub-angular of chalk and chert.		
		0.80 - 0.90	D	N=19 (3,3/5,4,5,5)				Structureless CHALK composed of cream, brown and white mottled gravelly SILT. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.		
		1.00	SPT							
		1.60 - 1.70	D	N=10 (2,2/2,2,3,3)						
		2.00	SPT							
		2.50 - 2.60	D	N=13 (2,2/3,3,4,3)						
		3.00	SPT							
		3.20 - 3.30	D							
		4.00	SPT							
					4.45	55.74		End of Borehole at 4.45m		

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-29

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234712E - 524735N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 61.43

Scale
1:25

Client: Urban & Civic

Dates: 15/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.30	61.13		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
		0.60 - 0.70	D					Structureless CHALK composed of cream and white mottled gravelly SILT. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.00	SPT	N=18 (2,2/3,4,5,6)				Weak low to medium density white mottled cream CHALK.	
		1.30 - 1.40	D		1.20	60.23			
		1.45	SPT	40 (13,14/20,20,,)					
					1.70	59.73		End of Borehole at 1.70m	

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-32

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525543E - 234710N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 66.05

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D	N=44 (5,7/7,8,13,16) N=70 (14,23/16,17,37,0)	0.30	65.75		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.90 - 1.00	ES					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		1.00	SPT						
		1.20 - 1.30	D						
		1.40	SPT		1.74	64.31		End of Borehole at 1.74m	2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-33

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525931E - 234712N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 69.77

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D		0.30	69.47		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.50 - 0.60	ES					Structureless CHALK composed of loose brown mottled white silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		1.00	SPT	N=19 (4,5/4,4,5,6)	1.10	68.67		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk.	
		1.50 - 1.60	D						
		2.00	SPT	N=58 (6,9/12,12,15,19)	2.45	67.32			
								End of Borehole at 2.45m	2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-35

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525920E - 234704N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 69.55

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D	N=28 (5,7/7,6,7,8)	0.30	69.25		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.60 - 0.70	ES		1.00	68.55		Loose orangish brown and white mottled gravelly SAND. Gravel is fine to coarse, angular of chalk and flint.	
		1.00	SPT					Structureless CHALK composed of white mottled off white gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.50 - 1.60	D	N=64 (6,12/12,15,17,20)	2.05	67.50		End of Borehole at 2.00m	2
		1.80	SPT						
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-37

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234574E - 524375N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 57.13

Scale
1:25

Client: Urban & Civic

Dates: 14/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D		0.20	56.92		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
		0.70 - 0.80	ES					Structureless CHALK composed of loose white mottled light brown and orange slightly sandy slightly gravelly CLAY. Gravel is consists of weak medium density angular to sub-angular, fine to coarse chalk and flint.	
		1.00	SPT	N=23 (5,6/5,6,6,6)	0.90	56.22		Very weak medium density white mottled yellow and cream CHALK. Recovering as a silty CLAY. Gravel is angular to sub-angular, fine to coarse.	1
		1.60 - 1.70	D						
		2.00	SPT	N=10 (2,2/2,3,2,3)					2
		2.40 - 2.50	D						
		3.00	SPT	N=6 (0,1/1,2,1,2)				No recovery of sample between 2.50-3.00m	
		3.50 - 3.60	D					No recovery of sample between 3.00-3.50m.	3
		4.00	SPT	N=3 (1,1/1,0,1,1)					4
					4.45	52.68		End of Borehole at 4.45m	

Remarks

Water encountered at 2.00m.





Windowless Sample Log

Borehole No.

WS-38

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234573E - 524513N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 60.79

Scale
1:25

Client: Urban & Civic

Dates: 14/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES	N=21 (7,8/6,5,6,4)	0.25	60.54		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.60 - 0.70	D		1.00	59.79		Loose yellowish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
		1.00	SPT					Structureless CHALK weak low density white mottled light brown. Recovering as a silty GRAVEL. Gravel is fine to coarse, angular to sub-angular chalk.	
		1.50 - 1.60	D	N=51 (7,11/14,13,12,12)	2.45	58.34		End of Borehole at 2.45m	2
		2.00	SPT						
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-40

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525018E - 234543N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 62.28

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES					Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.	
		0.40	D		0.35	61.93		Firm brown gravelly CLAY. Gravel is fine to coarse, sub-angular of chalk.	
					0.50	61.78		Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel with occasional cobbles.	
		1.00	SPT	N=17 (2,3/4,3,5,5)					1
		1.60	D						
		2.00	SPT	N=27 (6,7/6,7,6,8)					2
		3.00	SPT	N=13 (4,4/4,3,3,3)					3
		4.00	SPT	N=12 (1,2/2,2,4,4)					4
					4.45	57.83		End of Borehole at 4.45m	
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-41

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525179E - 234568N

Hole Type
WLS

Location: Baldock, North Hertfordshire

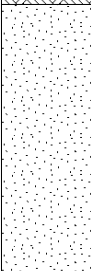
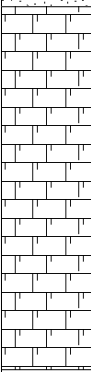
Level: 62.71

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.30	62.41		Brown sandy gravelly TOPSOIL. Gravel is coarse, angular of chert.	1
		0.75	ES					Loose white and cream slightly sandy clay GRAVEL. Gravel is fine to coarse of chalk and chert.	
		1.00	SPT	N=24 (4,7/7,5,6,6)	1.20	61.51		Cream and white mottled clayey structureless CHALK. Recovered as fine to coarse angular gravel with occasional cobbles.	2
		2.00	SPT	51 (8,10/14,14,23,)	2.40	60.31			3
								End of Borehole at 2.58m	4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-44

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525782E - 234647N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 67.66

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D		0.30	67.36		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
		0.60 - 0.70	ES					Structureless CHALK composed of loose white mottled off white and orangish brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		1.00	SPT	N=62 (16,21/19,23,20,0)	1.25	66.40		End of Borehole at 1.25m	

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-44A

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525782E - 234647N

Hole Type
WLS

Location: Baldock, North Hertfordshire

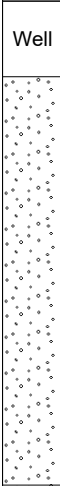
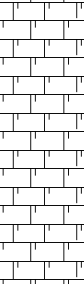
Level: 67.71

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D	N=93 (17,20/24,19,30,20)	0.30	67.41		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.70 - 0.80	ES					Structureless CHALK composed of loose white mottled orangish brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
1.00	SPT	1.25	66.46		End of Borehole at 1.35m				
End of Borehole at 1.35m								2	
								3	
								4	
								5	

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-48

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234577E - 524792N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 60.04

Scale
1:25

Client: Urban & Civic

Dates: 15/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D		0.30	59.74		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk, flint and chert.	
								Firm brown friable slightly sandy slightly gravelly CLAY. Gravel is fine to medium, sub-angular of chert.	
		0.70 - 0.80	ES						1
		0.90 - 1.00	D		0.90	59.14			
		1.00	SPT	N=15 (2,3/3,4,4,4)	1.00	59.04		Loose yellowish brown and brown mottled slightly gravelly slightly clayey SAND. Gravel is fine to coarse, sub-angular of chalk, flint and chert.	
								Light brown mottled white silty GRAVEL. Gravel is fine to coarse, sub-angular of chalk and flint.	
		1.50 - 1.60	D						2
		2.00	SPT	N=11 (2,3/2,3,3,3)					
					2.50	57.54		Weak low to medium density white mottled cream CHALK.	3
		2.70 - 2.80	D						
		3.00	SPT	N=15 (2,3/4,4,3,4)					
		3.30 - 3.40	D						
									4
		4.00	SPT	N=7 (1,1/1,2,2,2)					
					4.45	55.59			5
								End of Borehole at 4.45m	

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-49

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525320E - 234475N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 64.85

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES					TOPSOIL: Brown friable slightly sandy slightly gravelly CLAY. Gravel includes fine to medium sub angular chalk.	
		0.45	D		0.30	64.55		Brown slightly sandy slightly gravelly SAND. Sand is fine to medium, Gravel is fine to medium, subangular of chert.	
					0.55	64.30		Cream clayey structureless CHALK. Recovered as fine to coarse angular gravel.	1
		1.00	SPT	N=45 (6,11/13,11,11,10)					
		1.50	D		1.50	63.35		Loose SAND and GRAVEL. Gravel is fine to medium angular to sub-angular including chalk, chert and flint.	2
		2.00 2.05	SPT D	N=21 (6,10/8,5,4,4)					
					2.45	62.40		White clayey structureless CHALK. Recovered as fine to coarse angular gravel with occasional cobbles.	3
		3.00	SPT	N=22 (7,8/6,5,6,5)					
		4.00	SPT	N=39 (4,3/5,12,13,9)					4
					4.45	60.40		End of Borehole at 4.45m	5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-50

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525572E - 234477N

Hole Type
WLS

Location: Baldock, North Hertfordshire

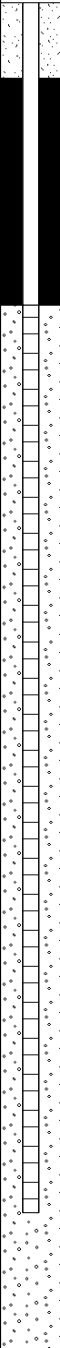
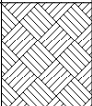
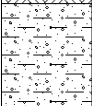
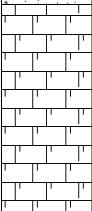
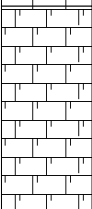
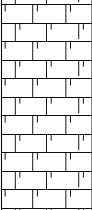
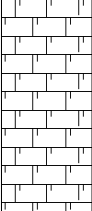
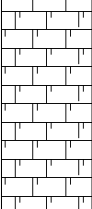
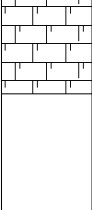
Level: 66.07

Scale
1:25

Client: Urban & Civic

Dates: 22/11/2023

Logged By
RK

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.35	65.72		Scrub grass over brown friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is fine to coarse, angular to sub rounded of chalk and flint. TOPSOIL	1
		0.60 - 0.70	D		0.70	65.37		Very Soft light brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular and includes flint and chalk.	
		1.00	SPT	N=38 (4,10/9,10,10,9)	1.40	64.67		Structureless CHALK recovered as angular to subrounded fine to coarse GRAVEL. Clasts are very weak to weak low cream/white. Matrix is white with light brown staining.	2
		1.50 - 1.60	D					Structureless CHALK recovered as angular to subrounded fine to coarse GRAVEL. Clasts are very weak to weak low and medium density white. Matrix is white.	
		2.00	SPT	N=29 (7,8/8,7,7,7)					3
		2.50 - 2.60	D						
		3.00	SPT	N=38 (8,8/10,9,10,9)					4
		3.80 - 4.00	D						
		4.00	SPT	N=33 (12,11/7,8,10,8)	4.45	61.62		End of Borehole at 4.45m	5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-51

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525109E - 234408N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 63.94

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
RP

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.20	ES		0.30	63.64		Brown friable slightly sandy slightly gravelly TOPSOIL. Gravel includes fine to medium sub angular chalk.		
		0.50	ES					Firm brown slightly gravelly clayey SAND. Gravel is fine to medium angular of chert.		
		1.00	SPT	N=44 (3,5/8,10,13,13)	0.80	63.14		Loose slightly clayey gravelly SAND. Gravel is fine to medium sub-angular to sub-rounded of chalk and chert.		1
		1.50	SPT	N=37 (10,10/11,8,10,8)						
		1.95	SPT	N=42 (10,10/12,10,10,10)						
					2.40	61.54	End of Borehole at 2.40m			2
								3		
								4		
								5		

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.

WS-55

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 234484E - 524853N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 60.35

Scale
1:25

Client: Urban & Civic

Dates: 15/05/2024

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40 - 0.50	ES		0.20	60.15		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
								Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, sub-angular of chert.	
					0.60	59.75		Light brown mottled white silty GRAVEL. Gravel is fine to coarse, sub-angular of chalk and flint.	1
		1.00	SPT	N=11 (2,2/3,3,2)					
		1.20 - 1.30	D						
		2.00	SPT	N=23 (3,4/7,6,5,5)					2
					2.20	58.15		Weak low to medium density white mottled cream CHALK.	
		2.40 - 2.50	D						
		3.00	SPT	N=18 (2,2/4,4,5,5)					3
		3.30 - 3.40	D						
		4.00	SPT	N=7 (2,2/2,1,2,2)					4
					4.45	55.90		End of Borehole at 4.45m	5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.
WS-R1-01
Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525959E - 234806N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 71.89

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES	N=45 (2,4/4,9,13,19) N=78 (15,13/17,14,27,20)	0.30	71.59		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.40 - 0.50	D					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.	
		0.80 - 0.90	D		0.70	71.19		Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
		1.00 1.10 - 1.20	SPT D					Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	
		1.35	SPT		1.85	70.04			
								End of Borehole at 1.85m	2
									3
									4
									5

Remarks
Potential groundwater at 1.00m.





Windowless Sample Log

Borehole No.
WS-R1-02

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525977E - 234770N

Hole Type
WLS

Location: Baldock, North Hertfordshire

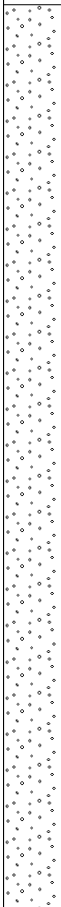
Level: 71.80

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10 - 0.15	D	N=21 (2,4/4,4,6,7)	0.30	71.50		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1	
		0.40 - 0.50	ES					Firm slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.		
		0.70 - 0.80	D		0.80	71.30		Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.		
		1.00	SPT					Structureless CHALK composed of loose white mottled creamy brown silty gravel. Gravel is consists of very weak medium density angular to sub-angular, fine to coarse chalk.		
		1.50 - 1.60	D	N=44 (8,11/13,8,10,13)	1.20	70.60		Structureless CHALK composed of white mottled off white gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.		2
		2.00	SPT							
										
										
										
										
		2.60 - 2.70 2.70	D SPT	N=77 (14,15/26,31,20,0)	3.00	68.80			3	
										
								End of Borehole at 3.00m	4	
										
										
										
										
										



Windowless Sample Log

Borehole No.
WS-R2/R3-01
Sheet 1 of 1

Project Name:	Baldock	Project No.	2899	Co-ords:	525224E - 234572N	Hole Type	WLS
Location:	Baldock, North Hertfordshire			Level:	62.99	Scale	1:25
Client:	Urban & Civic			Dates:	16/11/2023	Logged By	HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D		0.30	62.69		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert and chalk.	
		0.50 - 0.60	ES					Loose brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of flint and chalk.	
		1.00	SPT	N=19 (4,5/4,4,6,5)	1.00	61.99		Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	1
		1.20 - 1.30	D						
		2.00 2.10 - 2.20	SPT D	N=23 (7,7/6,5,6,6)					2
		3.00	SPT	N=69 (9,13/14,12,20,23)	3.45	59.54			3
								End of Borehole at 3.45m	4
									5

Remarks	No groundwater encountered.	
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Windowless Sample Log

Borehole No.
WS-R2-02
Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525244E - 234477N

Hole Type
WLS

Location: Baldock, North Hertfordshire

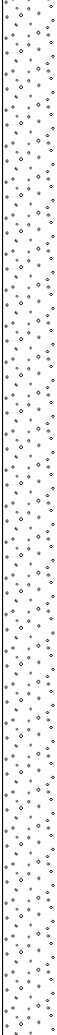
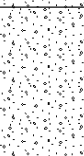
Level: 64.19

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description									
		Depth (m)	Type	Results													
		0.10 - 0.15	ES	N=25 (2,6/7,6,6,6)	0.30	63.89		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1								
		0.40 - 0.50	D					Loose orangish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.									
		0.60			0.60	63.59		Loose yellowish brown slightly gravelly slightly silty SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.									
		0.90 - 1.00	D				1.10	63.09			Firm brown and white mottled slightly gravelly slightly sandy CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.						
		1.00	SPT		1.30	62.89					Loose yellowish brown gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.						
		1.10 - 1.20	D	1.80			62.39			Structureless CHALK composed of white mottled cream gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.	2						
		1.40 - 1.50	D		2.00	SPT		N=9 (2,3/2,2,3,2)		2.40 - 2.50		D	3.00	SPT	N=9 (2,2/2,2,2,3)	3.45	60.74
		2.00	SPT	N=9 (2,3/2,2,3,2)													
		2.40 - 2.50	D														
		3.00	SPT	N=9 (2,2/2,2,2,3)													
3.45																	
									5								

Remarks
No groundwater encountered.





Windowless Sample Log

Borehole No.
WS-R3-02

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525211E - 234493N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 63.86

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
		0.10 - 0.15	D	N=33 (8,10/12,9,7,5)	0.30	63.56		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1				
		0.50 - 0.60	ES					Loose brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.					
		1.00	SPT		1.20 - 1.30	D	0.90	62.96			Firm white mottled brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.		
		1.70 - 1.80	D							Structureless CHALK composed of white mottled cream and brown gravelly CLAY. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk, Grade D.			
		2.00	SPT	N=38 (4,4/9,11,10,8)	1.50	62.36							
		2.50 - 2.60	D										
		3.00	SPT				N=69 (12,23/22,12,15,20)	3.38	60.48		End of Borehole at 3.38m	3	



Windowless Sample Log

Borehole No.
WS-R5-01

Sheet 1 of 1

Project Name: Baldock

Project No.
2899

Co-ords: 525611E - 234700N

Hole Type
WLS

Location: Baldock, North Hertfordshire

Level: 66.80

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	D	N=80 (13,13/16,22,42,0)	0.30	66.50		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.60 - 0.70	ES					Structureless CHALK composed of loose white mottled brown silty gravel. Gravel is consists of weak medium density angular to sub-angular, fine to coarse chalk.	
		1.00	SPT		1.45	65.35			
		1.20 - 1.30	D						
								End of Borehole at 1.45m	2
									3
									4
									5

Remarks

No groundwater encountered.





Windowless Sample Log

Borehole No.
WS-R5-02
Sheet 1 of 1

Project Name:	Baldock	Project No.	2899	Co-ords:	525642E - 234615N	Hole Type	WLS
Location:	Baldock, North Hertfordshire			Level:	67.53	Scale	1:25
Client:	Urban & Civic			Dates:	15/11/2023	Logged By	HB

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 - 0.15	ES		0.30	67.23		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
		0.80	SPT	N=76				Weak medium density white mottled creamy brown CHALK.	
		0.90 - 1.00	D	(10,10/14,16,20,26)	1.25	66.28			
								End of Borehole at 1.25m	2
									3
									4
									5

Remarks No groundwater encountered.	
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Rotary Core Log

Borehole No.

RO-01

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525257.46 - 235080.21

Location: Baldock, North Hertfordshire

Level: 70.21

Client: Urban & Civic

Dates: 09/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=50 (6,7/50 for 245mm) 1.20 - 2.00					0.30	69.91		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint.	1
							0.70	69.51		Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.	
							1.20	69.01		Structureless CHALK composed of white mottled brown and grey sub-rounded medium to coarse GRAVEL of very weak medium density chalk. (Grade Dc)	
							1.30	68.91		None Intact Core Recovery: White mottled brown and grey sub-rounded medium to coarse GRAVEL. Gravel is very weak medium density chalk.	
				100	46	25				White slightly mottled orange brown locally speckled black extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight to partly open with black speckling and silty fine gravel infil. Inclined fractures are undulating rough tight to partly open clean with black speckling. (Grade B4).	
										None Intact between 1.86m and 2.00m depth. None Intact between 2.00m and 2.14m depth.	
				100	21	8					
		4.13 - 4.23 3.50 - 5.00	C							... very closely spaced medium wide undulating wispy grey marl seams between 4.30m and 4.60m depth.	4
				100	64	37					
							5.00	65.21		Continued on Next Sheet	5

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-01

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525257.46 - 235080.21

Location: Baldock, North Hertfordshire

Level: 70.21

Client: Urban & Civic

Dates: 09/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		100	30	17	8.00	62.21		White slightly mottled orange brown locally speckled black extremely weak low to medium density CHALK with very closely to closely spaced partly open marl seams and some core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean. Inclined fractures are undulating rough tight clean. (Grade A4). <i>None Intact between 5.18m and 5.24m depth.</i>	6
										<i>None Intact between 6.50m and 6.55m depth.</i>	
		6.50 - 8.00		100	73	27				<i>None Intact between 6.76m and 6.82m depth.</i>	7
										<i>None Intact between 7.76m and 8.00m depth.</i>	
		8.00 - 9.50	C	100	0	0				Cream slightly mottled orange brown locally speckled black extremely weak low to medium density CHALK with extremely closely to very closely spaced partly open marl seams and some core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight to partly open clean with orange brown staining and black speckling. Inclined fractures are undulating rough tight clean. (Grade A4). <i>None Intact between 8.00m and 8.20m depth.</i>	8
		9.77 - 10.00								<i>None Intact between 9.77m and 8m depth.</i>	9
										Continued on Next Sheet	10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-01

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525257.46 - 235080.21

Location: Baldock, North Hertfordshire

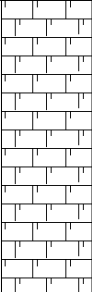
Level: 70.21

Client: Urban & Civic

Dates: 09/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00		99	46	23	10.98 11.00	59.23 59.21		Cream slightly mottled orange brown locally speckled black extremely weak low to medium density CHALK with extremely closely to very closely spaced partly open marl seams and some core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight to partly open clean with orange brown staining and black speckling. Inclined fractures are undulating rough tigh clean. (Grade A4). <i>None Intact between 10.57m and 8m depth.</i>	
										Assessed Zone of Core Loss. End of Borehole at 11.00m	11
											12
											13
											14
											15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-02

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525479.05 - 235089.71

Location: Baldock, North Hertfordshire

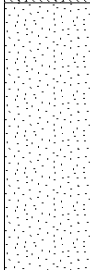
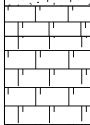
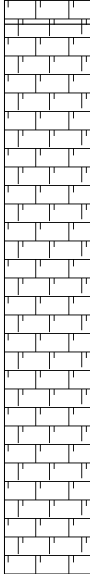
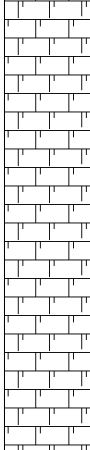
Level: 72.55

Scale
1:25

Client: Urban & Civic

Dates: 09/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description				
				TCR	SCR	RQD								
		N=50 (7.7/50 for 275mm) 1.20 - 2.00					0.30	72.25		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1			
										Loose orangish brown mottled white gravelly SAND. Gravel is fine to coarse, angular to sub-angular of chalk and flint.				
							1.20 1.30	71.35 71.25		None Intact Core Recovery - Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk. Grade D.	2			
							1.67	70.88		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.				
		2.00 - 3.50									Weak low to medium density white mottled cream CHALK - No fractures can be accurately determine due to drilling disturbance between 1.67-3.50m bgl.	3		
		3.50 - 5.00										Horizontal Fracture - Open, rough with grey staining. Horizontal Fracture - Open, rough with orangish brown staining.	4	
										5.00	67.55		Continued on Next Sheet	5

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-02

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525479.05 - 235089.71

Location: Baldock, North Hertfordshire

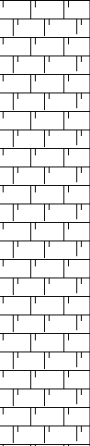
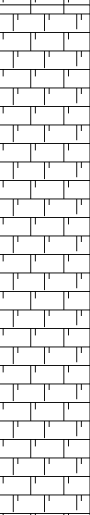
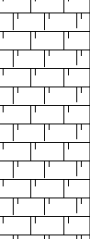
Level: 72.55

Scale
1:25

Client: Urban & Civic

Dates: 09/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description					
				TCR	SCR	RQD									
		5.00 - 6.50		100	0	0	6.50	66.05		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.	6				
		6.50 - 8.00		100	0	0				Weak low to medium density white mottled cream CHALK - No fractures can be accurately determine due to drilling disturbance between 6.50m - 8.00m bgl.	7				
		8.00 - 9.50		100	8	8			 <i>Horizontal Fracture - Closed, rough with orangish staining.</i>  <i>Horizontal Fracture - Closed, rough with orangish staining.</i>  <i>Horizontal Fracture - Open, infill of gravel with no obvious staining.</i>  <i>Horizontal Fracture - Open, gravel infill with orangish brown staining.</i>	8 9					
										None Intact Core Recovery - Weak low to medium density white mottled cream CHALK	10				
		Continued on Next Sheet													

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-02

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525479.05 - 235089.71

Location: Baldock, North Hertfordshire

Level: 72.55

Scale
1:25

Client: Urban & Civic

Dates: 09/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		10.31 - 10.46	C				10.08	62.47		None Intact Core Recovery - Weak low to medium density white mottled cream CHALK Weak low to medium density white mottled cream CHALK. Horizontal Fracture - Partly open to open, rough with silty infill and grey staining. Horizontal Fracture - Partly open, rough with silty infill and orangish brown staining. Horizontal Fracture - Closed, rough with orangish brown staining. Horizontal Fracture - Closed, rough with orange and brown staining. End of Borehole at 11.00m	11
		9.50 - 11.00		97	27	27					
							11.00	61.55			
											12
											13
											14
											15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-03

Sheet 1 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 524966.57 - 234936.80

Location: Baldock, North Hertfordshire

Level: 67.36

Client: Urban & Civic

Dates: 21/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		50 (2,6/50 for 225mm) 1.20 - 2.00					2.00	65.36		Assessed Zone of Core Loss.	1
				69	44	0					
		2.00 - 3.50		100	37	0					2
		3.50 - 5.00		100	88	15					3
											4
											5
Continued on Next Sheet											

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-03

Sheet 2 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 524966.57 - 234936.80

Location: Baldock, North Hertfordshire

Level: 67.36

Client: Urban & Civic

Dates: 21/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50	C	100	13	7					6
		6.50 - 8.00		100	51	16					7
		7.52 - 7.80									8
		8.00 - 9.50		100	100	0					9
										End of Borehole at 9.50m	10

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-04

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525391.98 - 234917.54

Location: Baldock, North Hertfordshire

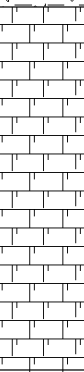
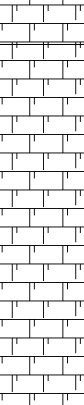
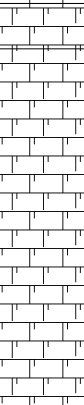
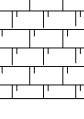
Level: 67.50

Scale
1:25

Client: Urban & Civic

Dates: 08/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		50 (7,11/50 for 200mm)					0.30	67.20		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.			
							0.80	66.70		Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.			
		1.20 - 2.00										Structureless CHALK composed of cream, brown and white mottled silt GRAVEL. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk and flint, Grade D.	1
				88	0	0	2.00	65.50					
		2.00 - 3.50					2.15	65.35		None Intact Core Recovery: Structureless CHALK composed of cream, brown and white mottled silt GRAVEL. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk and flint, Grade D.	2		
		2.00 - 3.50								Structureless CHALK composed of cream, brown and white mottled silt GRAVEL. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk and flint, Grade D.	3		
				100	0	0	3.35	64.15					
		3.50 - 5.00					3.50	64.00		Weak low to medium density white mottled cream CHALK. Marls between 5.30 - 6.00m bgl.	4		

Continued on Next Sheet

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-04

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525391.98 - 234917.54

Location: Baldock, North Hertfordshire

Level: 67.50

Scale
1:25

Client: Urban & Civic

Dates: 08/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		97	0	0	6.50	61.00		Weak low to medium density white mottled cream CHALK. Marls between 5.30 - 6.00m bgl. <i>Two sub-horizontal fractures interconnecting - open, rough with orangish staining.</i> <i>Horizontal and Vertical Fracture interconnecting - open, rough with purplish grey staining (moderately stained Calcite).</i>	6
		6.50 - 8.00		100	0	0				Structureless CHALK composed of cream, brown and white mottled silt GRAVEL. Gravel consist of very weak low to medium density angular to sub-angular fine to coarse chalk, Grade D.	7
		8.00 - 9.50		100	0	0	8.00	59.50		Weak low to medium density white mottled cream CHALK. due to drilling disturbance after 10.00m bgl, no fractures could be accurately determined. <i>Two sub-horizontal fractures interconnecting with partly open, rough and orangish staining.</i> <i>Horizontal Fracture- closed, rough with no staining.</i> <i>Horizontal Fracture - Partly open, rough with orangish brown staining.</i>	8
										<i>Horizontal Fracture - closed, rough with slight orange staining.</i>	9
										Continued on Next Sheet	10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-04

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525391.98 - 234917.54

Location: Baldock, North Hertfordshire

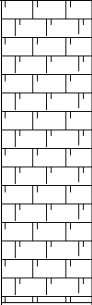
Level: 67.50

Client: Urban & Civic

Dates: 08/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00		100	0	0	11.00	56.50		Weak low to medium density white mottled cream CHALK. due to drilling disturbance after 10.00m bgl, no fractures could be accurately determined.	11
										End of Borehole at 11.00m	12
											13
											14
											15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-05

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525631.17 - 234928.34

Location: Baldock, North Hertfordshire

Level: 69.85

Scale
1:25

Client: Urban & Civic

Dates: 10/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=50 (4,4/50 for 275mm) 1.20 - 2.00					0.30	69.55		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1
							0.60	69.25		Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chalk.	
							0.80	69.05		Structureless CHALK composed of cream, brown and white mottled silt angular fine to coarse GRAVEL. Gravel is very weak low to medium density chalk and flint. (Grade Dc)	
									White extremely weak low to medium density CHALK with some core disturbance due to steeply inclined/vertical fractures. Horizontal fractures are closely spaced undulating rough tight to partly open with orange brown staining and silty infil. Inclined fractures are undulating rough tight clean with orange brown staining. (Grade C4)		
									None Intact between 1.60m and 2.00m depth.		
									None Intact between 2.00m and 2.10m depth.		
											
											
											
											
		2.00 - 3.50				100	0	0			2
		3.50 - 5.00				100	0	0			3
										None Intact between 3.50m and 3.70m depth.	4
											
											
											
											
											
											
											
											
							5.00	64.85		Continued on Next Sheet	5

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-05

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525631.17 - 234928.34

Location: Baldock, North Hertfordshire

Level: 69.85

Scale
1:25

Client: Urban & Civic

Dates: 10/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		100	0	0	6.30	63.55		White extremely weak low to medium density CHALK with some core disturbance due to steeply inclined/vertical fractures. Horizontal fractures are closely spaced undulating rough tight to moderately wide with orange brown staining and silty fine gravel infil. Inclined fractures are undulating rough tight to moderately wide with orange brown staining and silty fine gravel infil. (Grade C5) <i>None Intact between 5.00m and 5.30m depth.</i> <i>None Intact between 5.50m and 6.10m depth.</i>	6
		6.50 - 8.00		100	87	14				White extremely weak low to medium density CHALK with some core disturbance due to steeply inclined/vertical fractures and very closely spaced wispy marls. Horizontal fractures are closely spaced undulating rough tight to partly open with orange brown staining and silty angular fine gravel infil. Vertical fractures are undulating rough very tight to partly open with orange brown staining and silty angular fine gravel infil. (Grade C4) <i>None Intact between 7.70m and 8.00m depth.</i>	7
		8.00 - 9.50		100	0	0				<i>None Intact between 9.10m and 9.30m depth.</i>	8
										<i>None Intact between 9.85m and 10.3m depth.</i>	9
										Continued on Next Sheet	10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-05

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525631.17 - 234928.34

Location: Baldock, North Hertfordshire

Level: 69.85

Scale
1:25

Client: Urban & Civic

Dates: 10/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00		100	20	20	11.00	58.85		White extremely weak low to medium density CHALK with some core disturbance due to steeply inclined/vertical fractures and very closely spaced wispy marls. Horizontal fractures are closely spaced undulating rough tight to partly open with orange brown staining and silty angular fine gravel infil. Vertical fractures are undulating rough very tight to partly open with orange brown staining and silty angular fine gravel infil. (Grade C4)	11
										End of Borehole at 11.00m	12
											13
											14
											15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-06

Sheet 1 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525851.40 - 234932.19

Location: Baldock, North Hertfordshire

Level: 73.22

Scale
1:25

Client: Urban & Civic

Dates: 13/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		N=50 (2,3/50 for 285mm) 1.20 - 2.00					0.40	72.82		Grey friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1		
												Structureless CHALK composed of silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	
		2.00 - 3.50		69	0	0	1.30	71.92		White mottled orange brown extremely to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough partly to moderately open with silty fine gravel infil. Inclined fractures are undulating rough tight to moderately open clean with silty fine gravel infil. (Grade C4)	2		
							1.75	71.47					
		3.50 - 5.00		100	0	0	2.00	71.22		White mottled orange brown extremely to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough partly to moderately open with silty fine gravel infil. Inclined fractures are undulating rough tight to moderately open clean with silty fine gravel infil. (Grade C4)	3		
										4			
											5		

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-06

Sheet 2 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525851.40 - 234932.19

Location: Baldock, North Hertfordshire

Level: 73.22

Scale
1:25

Client: Urban & Civic

Dates: 13/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		98	7	7	6.47 6.50	66.75 66.72		White mottled orange brown extremely to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough partly to moderately open with sily fine gravel infil. Inclined fractures are undulating rough tight to moderately open clean with sily fine gravel infil. (Grade C4)	6
		6.50 - 8.00		100	35	0				Assessed Zone of Core Loss. White extremely to very weak low to medium density CHALK with strong core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough partly to moderately open with sily fine gravel infil. Inclined fractures are undulating rough tight to moderately open clean with sily fine gravel infil. (Grade C4)	7
		8.00 - 9.50		100	29	0					8
							9.50	63.72		End of Borehole at 9.50m	9
											10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-07

Sheet 1 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525181.56 - 234847.42

Location: Baldock, North Hertfordshire

Level: 65.04

Client: Urban & Civic

Dates: 20/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=29 (2,6/6,7,8,8)					0.40	64.64		Grey friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1
		1.20 - 2.00								Structureless CHALK composed of off white silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	
				50	0	0				Assessed Zone of Core Loss.	2
		2.00 - 3.50					2.00 2.00	63.04 63.04		White extremely weak low density CHALK with extremely closely to closely spaced horizontal to sub-horizontal undulating rough tight fractures with orange brown staining. (Grade A5)	
				87	0	0				Assessed Zone of Core Loss. <i>None Intact between 3.36m and 3.40m depth.</i>	
		4.13 - 4.30	C				3.30	61.74			4
		3.50 - 5.00					3.50	61.54		White extremely weak low density CHALK with closely spaced wispy marl seams and some core disturbance due to inclined fractures. Horizontal/sub-horizontal fractures are extremely closely to closely spaced undulating rough tight fractures with black speckling and grey mottling. Inclined fractures are undulating rough tight with black speckling and grey mottling. (Grade A5) <i>None Intact between 3.53m and 3.59m depth.</i>	
				100	44	0					5
							5.00	60.04		Continued on Next Sheet	

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-07

Sheet 2 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525181.56 - 234847.42

Location: Baldock, North Hertfordshire

Level: 65.04

Client: Urban & Civic

Dates: 20/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50	C	100	59	8				Off white occasionally mottled orange brown and grey brown extremely to very weak medium density CHALK with some core disturbance due to inclined fractures. No discernable horizontal fractures - possibly due to core disturbance. Inclined fractures are undulating rough tight with black speckling and grey staining. (Grade A5)	6
		6.50 - 8.00		100	95	11					7
		7.88 - 8.00									8
		8.00 - 9.50		70	70	0					9
							9.05	55.99		Assessed Zone of Core Loss.	
							9.50	55.54		End of Borehole at 9.50m	10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-08

Sheet 1 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 526077.28 - 234852.22

Location: Baldock, North Hertfordshire

Level: 74.97

Scale
1:25

Client: Urban & Civic

Dates: 19/11/2023

Logged By
HB

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	74.67		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	
										Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.	1
		1.20 - 2.00					1.20	73.77		Assessed Zone of Core Lost	
							1.50	73.47			
		2.00 - 3.50 2.80 - 2.96	C	33	0	0				Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.	2
											3
		3.50 - 5.00		100	0	0					4
							5.00	69.97		Continued on Next Sheet	5

Remarks
No groundwater encountered.





Rotary Core Log

Borehole No.

RO-08

Sheet 2 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 526077.28 - 234852.22

Location: Baldock, North Hertfordshire

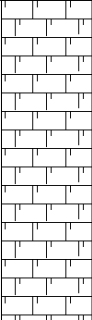
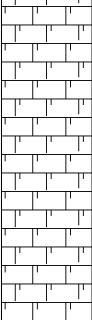
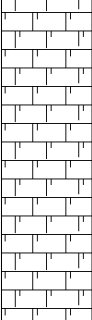
Level: 74.97

Client: Urban & Civic

Dates: 19/11/2023

Scale
1:25

Logged By
HB

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		100	0	0				Weak low to medium density white mottled cream CHALK. <u>Horizontal Fracture - closed, rough with greyish staining and silt infill.</u> <u>Vertical Fracture causing multiple horizontal fractures.</u>	6
		6.50 - 8.00		100	11	11				<u>Horizontal Fracture - partly open to open, rough with orangish brown staining.</u> <u>Horizontal Fracture - Closed, smooth with no staining.</u> <u>Sub Vertical Fracture - Horizontal fractures can not be determined accurately</u>	7
		8.00 - 9.50		100	0	0					8
							9.50	65.47			9
											10

Remarks
No groundwater encountered.





Rotary Core Log

Borehole No.

RO-09

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234801.75 - 524511.91

Location: Baldock, North Hertfordshire

Level: 67.83

Client: Urban & Civic

Dates: 16/05/2024 - 17/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		N=12 (1,1/1,3,3,5)					0.40	67.43		Grass over TOPSOIL-Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint.	1		
										Structureless CHALK composed of white silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)			
		1.20 - 2.00											2
		1.20 - 2.70		95	0	0						None Intact between 2.05m and 2.10m depth.	
							2.20	65.63			White extremely weak low to medium density CHALK with some core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean with grey staining. Inclined fractures are undulating rough tight clean with grey staining and black speckling.	3	
		2.00 - 3.50					2.60	65.23			Assessed Zone of Core Loss.		
							2.70	65.13			White extremely weak low to medium density CHALK with some core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean with grey staining. Inclined fractures are undulating rough tight clean with grey staining and black speckling. (Grade A4)	4	
		2.70 - 4.20		100	0	0					None Intact between 2.70m and 2.95m depth.		
													5
		3.50 - 5.00									None Intact between 4.20m and 4.30m depth.		
		4.20 - 5.70		100	21	0							
						</							



Rotary Core Log

Borehole No.

RO-09

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234801.75 - 524511.91

Location: Baldock, North Hertfordshire

Level: 67.83

Scale
1:25

Client: Urban & Civic

Dates: 16/05/2024 - 17/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50					7.20	60.63		White extremely weak low to medium density CHALK with some core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean with grey staining. Inclined fractures are undulating rough tight clean with grey staining and black speckling. (Grade A4) <i>None Intact between 5.20m and 5.70m depth.</i> <i>... mottled orange brown from 5.70m depth.</i> <i>None Intact between 5.70m and 6.00m depth.</i>	6
		5.70 - 7.20		100	70	30				<i>None Intact between 6.75m and 7.20m depth.</i>	
		6.50 - 8.00								White extremely weak low to medium density CHALK with some core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight to partly open clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade A4) <i>None Intact between 7.20m and 7.45m depth.</i> <i>None Intact between 7.70m and 7.85m depth.</i>	
		7.20 - 8.70		95	8	0				<i>None Intact between 8.20m and 8.63m depth.</i>	
		8.00 - 9.50								Assessed Zone of Core Loss.	
		8.70 - 10.20		73	29	8				White extremely weak low to medium density CHALK with some core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight to partly open clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade A4) <i>None Intact between 8.70m and 8.85m depth.</i> <i>None Intact between 9.05m and 9.40m depth.</i>	
										Assessed Zone of Core Loss.	
							9.80	58.03		Continued on Next Sheet	10

Remarks

Water level maintained at 2.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.
RO-09
Sheet 3 of 3
Hole Type
RC
Scale
1:25
Logged By
SJF

Project Name: Baldock
Project No. 2899
Co-ords: 234801.75 - 524511.91
Location: Baldock, North Hertfordshire
Level: 67.83
Client: Urban & Civic
Dates: 16/05/2024 - 17/05/2024

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.20	57.63		Assessed Zone of Core Loss.	
										End of Borehole at 10.20m	
											11
											12
											13
											14
											15

Remarks
Water level maintained at 2.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-10

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234787.23 - 524742.71

Location: Baldock, North Hertfordshire

Level: 65.45

Scale
1:25

Client: Urban & Civic

Dates: 17/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=27 (7,6/7,7,6,7)					0.40	65.05		Grass over TOPSOIL-Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint.	1
										Structureless CHALK composed of white silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	
		1.20 - 2.00					1.70	63.75		White slightly mottled brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	2
		1.20 - 2.70		97	0	0				Assessed Zone of Core Loss.	
							2.65	62.80			3
		2.00 - 3.50					2.70	62.75			
		2.70 - 4.20		100	0	0					4
		3.50 - 5.00									5
		4.20 - 5.70		97	0	0					
										Continued on Next Sheet	

Remarks
No groundwater identified. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-10

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234787.23 - 524742.71

Location: Baldock, North Hertfordshire

Level: 65.45

Scale
1:25

Client: Urban & Civic

Dates: 17/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50					5.70	59.75		Assessed Zone of Core Loss. White and cream extremely weak low to medium denstiy CHALK with very closely to closely spaced wispy marls seams and core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. <i>None Intact between 5.70m and 5.90m depth.</i>	6
		5.70 - 7.20		98	62	27				<i>None Intact between 6.95m and 7.17m depth.</i>	7
		6.50 - 8.00					7.17 7.20	58.28 58.25		Assessed Zone of Core Loss. White and cream extremely weak low to medium denstiy CHALK with very closely to closely spaced wispy marls seams and core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. <i>None Intact between 7.20m and 7.30m depth.</i>	8
		7.20 - 8.70		95	57	0				<i>None Intact between 8.10m and 8.70m depth.</i>	
		8.00 - 9.50					8.63 8.70	56.82 56.75		Assessed Zone of Core Loss. White and cream extremely weak low to medium denstiy CHALK with very closely to closely spaced wispy marls seams and core disturbance due to inclined fractures. Horizontal fractures are closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. <i>None Intact between 8.70m and 9.50m depth.</i>	9
		8.70 - 10.20		78	12	12					
							9.87	55.58		Assessed Zone of Core Loss.	10
										Continued on Next Sheet	

Remarks

No groundwater identified. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-10

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234787.23 - 524742.71

Location: Baldock, North Hertfordshire

Level: 65.45

Client: Urban & Civic

Dates: 17/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.20	55.25		Assessed Zone of Core Loss.	
										End of Borehole at 10.20m	
											11
											12
											13
											14
											15

Remarks

No groundwater identified. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-11

Sheet 1 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525853.75 - 234781.66

Location: Baldock, North Hertfordshire

Level: 71.94

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.40	71.54		Grey friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1
										Structureless CHALK composed of silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	
		N=33 (2,2/5,8,9,11)									
		1.20 - 2.00		100	0	0					
		2.00 - 3.50		97	0	0					2
							3.45	68.49		Assessed Zone of Core Loss.	3
							3.50	68.44		Structureless CHALK composed of silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	
		3.50 - 5.00		100	0	0	4.10	67.84		White extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are extremely closely to closely spaced undulating rough tight and clean with some orange brown staining. Inclined fracture are undulating rough tight to moderately open with silty fine gravel infil. (Grade C5)	4
											5

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-11

Sheet 2 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525853.75 - 234781.66

Location: Baldock, North Hertfordshire

Level: 71.94

Client: Urban & Civic

Dates: 15/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		95	0	0	6.43 6.50	65.51 65.44		White extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are extremely closely to closely spaced undulating rough tight and clean with some orange brown staining. Inclined fracture are undulating rough tight to moderately open with silty fine gravel infil. (Grade C5) <i>None Intact between 5.10m and 6.20m depth.</i>	6
		6.50 - 8.00		100	0	0				Assessed Zone of Core Loss. White extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are extremely closely to closely spaced undulating rough tight and clean with some orange brown staining. Inclined fracture are undulating rough tight to moderately open with silty fine gravel infil. (Grade C5) <i>None Intact between 6.50m and 8.00m depth.</i>	7
		8.00 - 9.50		100	0	0				<i>None Intact between 8.00m and 8.90m depth.</i>	8
							9.50	62.44		End of Borehole at 9.50m	9
											10

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-13

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234699.39 - 524295.66

Location: Baldock, North Hertfordshire

Level: 61.31

Scale
1:25

Client: Urban & Civic

Dates: 16/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		50 (9.8/50 for 225mm) 1.20 - 2.00 1.20 - 2.70 2.00 - 3.50 2.70 - 4.20 3.50 - 5.00 4.20 - 5.70					0.40 0.90 <				

Remarks

Water level maintained at 3.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-13

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234699.39 - 524295.66

Location: Baldock, North Hertfordshire

Level: 61.31

Scale
1:25

Client: Urban & Civic

Dates: 16/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							5.05	56.26		Cream and off white and orange brown extremely weak low to medium density CHALK. Horizontal fractures are very closely to closely spaced undulating rough tight to partly open clean with grey staining and silty fine gravel infil. (Grade C4) Assessed Zone of Core Loss.	
		5.00 - 6.50					5.70	55.61		White extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade A4) <i>None Intact between 5.70m and 5.80m depth.</i>	6
		5.70 - 7.20		93	53	0					
							7.10	54.21		Assessed Zone of Core Loss.	7
		6.50 - 8.00					7.20	54.11		White extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade A4) <i>None Intact between 7.20m and 7.70m depth.</i>	
		7.20 - 8.70		97	0	0					8
										<i>None Intact between 8.49m and 8.65m depth.</i>	
		8.00 - 9.50					8.65	52.66		Assessed Zone of Core Loss.	
		8.70 - 10.20		93	0	0	8.70	52.61		White extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade A4)	9
									Continued on Next Sheet	10	

Remarks

Water level maintained at 3.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-13

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234699.39 - 524295.66

Location: Baldock, North Hertfordshire

Level: 61.31

Scale
1:25

Client: Urban & Civic

Dates: 16/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.09	51.22		White extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade A4) Assessed Zone of Core Loss. End of Borehole at 10.20m	
							10.20	51.11			
											11
											12
											13
											14
											15

Remarks

Water level maintained at 3.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-14

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234705.48 - 524965.44

Location: Baldock, North Hertfordshire

Level: 62.88

Scale
1:25

Client: Urban & Civic

Dates: 20/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=26 (4,4/4,5,7,10)					0.40	62.48		Grass over TOPSOIL-Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint.	1
										Structureless CHALK composed of white silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	
		1.20 - 2.00					1.20	61.68		Cream and off white extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely undulating rough tight to partly open clean with orange brown staining with cream silt infil. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade C4)	2
		1.20 - 2.70					1.98	60.90		None Intact between 1.20m and 1.40m depth. None Intact between 1.65m and 1.98m depth. Assessed Zone of Core Loss.	
										Cream and off white extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely undulating rough tight to partly open clean with orange brown staining with cream silt infil. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade C4)	
		2.00 - 3.50					2.70	60.18		Cream and off white extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely undulating rough tight to partly open clean with orange brown staining with cream silt infil. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. (Grade C4)	
		2.70 - 4.20								None Intact between 2.70m and 3.00m depth. None Intact between 3.60m and 3.90m depth. Assessed Zone of Core Loss.	3
							3.90	58.98		Assessed Zone of Core Loss.	
		3.50 - 5.00					4.20	58.68		Off white mottle orange brown extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely spaced undulating rough tight clean with orange brown and grey staining. Inclined fractures are undulating rough tight clean with orange brown and grey staining and black speckling. (Grade A5)	4
		4.20 - 5.70								Continued on Next Sheet	

Remarks

No groundwater identified. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-14

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234705.48 - 524965.44

Location: Baldock, North Hertfordshire

Level: 62.88

Scale
1:25

Client: Urban & Civic

Dates: 20/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		5.00 - 6.50					5.55	57.33		Off white mottle orange brown extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely spaced undulating rough tight clean with orange brown and grey staining. Inclined fractures are undulating rough tight clean with orange brown and grey staining and black speckling. (Grade A5)	6		
							5.70	57.18		Assessed Zone of Core Loss.			
		5.70 - 7.20					100	0	0		Off white mottle orange brown extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely spaced undulating rough tight clean with orange brown and grey staining. Inclined fractures are undulating rough tight clean with orange brown and grey staining and black speckling. (Grade A5)		
											None Intact between 6.10m and 6.40m depth.		
		6.50 - 8.00									None Intact between 7.20m and 7.30m depth.	7	
		7.20 - 8.70					73	0	0		None Intact between 7.90m and 8.30m depth.	8	
		8.00 - 9.50								8.30	54.58	Assessed Zone of Core Loss.	
		8.70 - 10.20								8.70	54.18	Off white mottle orange brown extremely weak to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely spaced undulating rough tight clean with orange brown and grey staining. Inclined fractures are undulating rough tight clean with orange brown and grey staining and black speckling. (Grade A5)	9
												None Intact between 8.70m and 8.80m depth.	
									None Intact between 8.90m and 9.05m depth.				
									None Intact between 9.15m and 9.55m depth.				
							9.55	53.33	Assessed Zone of Core Loss.				
Continued on Next Sheet											10		

Remarks

No groundwater identified. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-14

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234705.48 - 524965.44

Location: Baldock, North Hertfordshire

Level: 62.88

Client: Urban & Civic

Dates: 20/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.20	52.68		Assessed Zone of Core Loss.	
										End of Borehole at 10.20m	
											11
											12
											13
											14
											15

Remarks

No groundwater identified. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-16

Sheet 1 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525640.81 - 234707.57

Location: Baldock, North Hertfordshire

Level: 66.55

Client: Urban & Civic

Dates: 17/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description		
				TCR	SCR	RQD						
		N=50 (2.4/50 for 265mm) 1.20 - 2.00					0.30	66.25		Grass over TOPSOIL - Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of chert.	1	
										Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
							1.20	65.35		None Intact Core Recovery - Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.		
							1.28	65.27				
				100	21	0	1.57	64.98		Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. Grade D.	2	
										Weak low to medium density white mottled cream CHALK. Core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough, tight clean. Vertical /steeply inclined fractures are undulating rough tight clean with localised orange brown/brown staining and black speckling.		
		2.00 - 3.50		100	0	0				Horizontal Fracture - Closed, rough with no staining.	3	
										Horizontal Fracture - Closed, rough with grey staining.		
										Horizontal Fracture - Closed, rough with grey staining.	4	
										Vertical Fracture - Partly open, stepped with no obvious staining. This has cause multiple bedding fractures.		
		3.50 - 5.00			100	0	0					5
												Continued on Next Sheet

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-16

Sheet 2 of 2

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525640.81 - 234707.57

Location: Baldock, North Hertfordshire

Level: 66.55

Client: Urban & Civic

Dates: 17/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		100	0	0	8.00	58.55		Weak low to medium density white mottled cream CHALK. Core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough, tight clean. Vertical /steeply inclined fractures are undulating rough tight clean with localised orange brown/brown staining and black speckling.	6
		6.50 - 8.00		100	0	0					7
		8.00 - 9.50		87	0	0					8
											9
										End of Borehole at 9.50m	10

Remarks

No groundwater identified





Borehole No.

RO-20

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234564.71 - 524433.27

Location: Baldock, North Hertfordshire

Level:	58.95
--------	-------

Scale
1:25

Client: Urban & Civic

Dates: 15/05/2024

Logged By
SJF

Remarks
Water level maintained at Ground Level due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-20

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234564.71 - 524433.27

Location: Baldock, North Hertfordshire

Level: 58.95

Scale
1:25

Client: Urban & Civic

Dates: 15/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=6 5.00 - 6.50 (1,1,1,1,2,2)					6.80	52.15		White extremely weak medium density CHALK with closely to medium spaced horizontal to sub-horizontal undulating rough tight to open fractures with silty fine gravel infil. (Grade C3)	6
		5.70 - 7.20		73	23	23					
		N=12 6.50 - 8.00 (3,3,2,3,3,4)								Assessed Zone of Core Loss.	
		7.20 - 8.70		65	20	20				White slightly mottled orange brown extremely weak medium density CHALK with closely spaced horizontal to sub-horizontal undulating rough tight to open fractures with silty fine gravel infil. (Grade C4) <i>None Intact between 7.20m and 7.45m depth.</i>	
		8.70 - 10.20		71	71	68				Assessed Zone of Core Loss.	
		N=10 8.00 - 9.50 (4,2,2,3,2,3)								White slightly mottled orange brown extremely weak medium density CHALK with closely spaced horizontal to sub-horizontal undulating rough tight to open fractures with silty fine gravel infil. (Grade C4) <i>None Intact between 8.70m and 8.80m depth.</i>	
							9.76	49.19		Assessed Zone of Core Loss.	10
Continued on Next Sheet											

Remarks

Water level maintained at Ground Level due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-20

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234564.71 - 524433.27

Location: Baldock, North Hertfordshire

Level: 58.95

Client: Urban & Civic

Dates: 15/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.20	48.75		Assessed Zone of Core Loss.	
										End of Borehole at 10.20m	
											11
											12
											13
											14
											15

Remarks

Water level maintained at Ground Level due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-21

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234591.60 - 524824.99

Location: Baldock, North Hertfordshire

Level: 61.45

Scale
1:25

Client: Urban & Civic

Dates: 21/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=26 (4,5/6,6,6,8)					0.30	61.15		Grass over TOPSOIL-Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint.	
										Structureless CHALK composed of white and cream mottled silty GRAVEL. Gravel consist of very weak medium density angular to sub-angular fine to coarse chalk and flint. (Grade Dc)	
		1.20 - 2.00					1.00	60.45		White extremely to very weak low to high density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight to moderately open with grey staining black speckling and silty fine gravel infill. Inclined fractures are undulating rough tight to partly open with grey stianing and silty fine gravel infill. (Grade C5)	1
		1.20 - 2.70		75	0	0				None Intact between 1.20m and 1.30m depth. None Intact between 1.80m and 2.00m depth.	
							2.32	59.13		Assessed Zone of Core Loss.	2
		2.00 - 3.50					2.70	58.75		White extremely to very weak low to high density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight to moderately open with grey staining black speckling and silty fine gravel infill. Inclined fractures are undulating rough tight to partly open with grey stianing and silty fine gravel infill. (Grade C5)	3
		2.70 - 4.20		87	0	0				None Intact between 2.70m and 2.80m depth. None Intact between 2.95m and 3.80m depth.	
							4.00	57.45		Assessed Zone of Core Loss.	4
		3.50 - 5.00					4.20	57.25		White extremely to very weak low to high density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight to moderately open with grey staining black speckling and silty fine gravel infill. Inclined fractures are undulating rough tight to partly open with grey stianing and silty fine gravel infill. (Grade C5)	
		4.20 - 5.70		93	0	0				None Intact between 4.20m and 4.50m depth. None Intact between 4.70m and 5.60m depth.	5

Continued on Next Sheet

Remarks

Water level maintained at 8.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Borehole No.

RO-21

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234591.60 - 524824.99

Location: Baldock, North Hertfordshire

Level:	61.45
--------	-------

Scale
1:25

Client: Urban & Civic

Dates: 21/05/2024

Logged By
SJF

Remarks	
Water level maintained at 8.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.	



Rotary Core Log

Borehole No.

RO-21

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234591.60 - 524824.99

Location: Baldock, North Hertfordshire

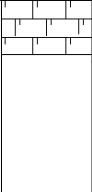
Level: 61.45

Client: Urban & Civic

Dates: 21/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.18 10.20	51.27 51.25		Off white and cream mottled orange brown extremely to very weak medium to high density CHALK. Horizontal fractures are closely to moderately spaced undulating tight clean with orange brown staining. Inclined fractures are undulating tight clean with orange brown staining. (Grade A4) Assessed Zone of Core Loss. End of Borehole at 10.20m	
											11
											12
											13
											14
											15

Remarks

Water level maintained at 8.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-22

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525336.46 - 234552.92

Location: Baldock, North Hertfordshire

Level: 64.43

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=47 (8,16/13,10,12,12)					0.30	64.13		Grey friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1
		1.20 - 2.00		63	0	0					1.50
							1.70	62.73	Assessed Zone of Core Loss.		
		41 (5,12/41 for 170mm)					2.00	62.43		None Intact Core Recovery: White silty coarse angular GRAVEL of extremey to very weak low to medium density chalk.	3
							2.40	62.03			
		2.00 - 3.50		100	35	0				None Intact between 3.25m and 3.40m depth.	4
		3.50 - 5.00		93	93	39				Assessed Zone of Core Loss.	5
							4.90	59.53			
							5.00	59.43			

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-22

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525336.46 - 234552.92

Location: Baldock, North Hertfordshire

Level: 64.43

Scale
1:25

Client: Urban & Civic

Dates: 06/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50	C	80	0	0	6.25	58.18		None Intact Core Recovery: White silty coarse angular GRAVEL of extremey to very weak low to medium density chalk.	6
							6.50	57.93		Assessed Zone of Core Loss.	
		6.50 - 8.00		93	0	0				White extremely to very weak low to mediun density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clena wit hlight brown staining. (Grade C4)	7
		8.65 - 8.80 8.00 - 9.50		91	45	12	9.37	55.06		Assessed Zone of Core Loss.	
							9.50	54.93		White extremely to very weak low to mediun density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clena wit hlight brown staining. (Grade C4)	
										None Intact between 9.74m and 9.80m depth.	10

Continued on Next Sheet

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-22

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525336.46 - 234552.92

Location: Baldock, North Hertfordshire

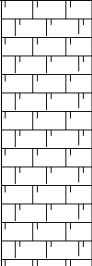
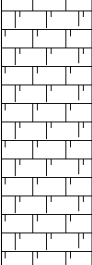
Level: 64.43

Client: Urban & Civic

Dates: 06/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00		93	43	7				White extremely to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clean with light brown staining. (Grade C4) <i>None Intact between 10.00m and 10.29m depth.</i> <i>None Intact between 10.44m and 10.50m depth.</i> <i>None Intact between 10.62m and 10.89m depth.</i>	
							11.89	52.54		End of Borehole at 11.00m	11
											12
											13
											14
											15

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-23

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525170.21 - 234465.27

Location: Baldock, North Hertfordshire

Level: 63.65

Client: Urban & Civic

Dates: 07/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		N=24 (3,2/4,6,7,7)					0.30	63.35		Grey friable slightly sandy slightly gravelly clayey TOPSOIL. Gravel is angular to sub angular fine to coarse chalk.	1		
										Orange brown sandy gravelly CLAY. Gravel is angular fine to coarse flint.			
		1.20 - 2.00					1.50	62.15		Structureless CHALK composed of silty angular fine to coarse GRAVEL of extremely weak low to medium density chalk. (Grade Dc)	2		
							1.70	61.95		Assessed Zone of Core Loss.			
				N=50 (4,9/50 for 275mm)				2.00				61.65	
					2.00 - 3.50				2.40	61.25			White extremely to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clena wit hlight brown staining. (Grade C4)
										None Intact between 3.25m and 3.40m depth.			
		3.50 - 5.00								Assessed Zone of Core Loss.	4		
									4.90	58.75		Assessed Zone of Core Loss.	5
									5.00	58.65		Continued on Next Sheet	

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-23

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525170.21 - 234465.27

Location: Baldock, North Hertfordshire

Level: 63.65

Scale
1:25

Client: Urban & Civic

Dates: 07/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description					
				TCR	SCR	RQD									
		5.00 - 6.50					6.25	57.40		None Intact Core Recovery: White silty coarse angular GRAVEL of extreamey to very weak low to medium density chalk.	6				
		6.50 - 8.00					6.50	57.15		Assessed Zone of Core Loss.	7				
								White extremely to very weak low to mediun density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clena wit hlight brown staining. (Grade C4)							
8.00 - 9.50									None Intact between 8.00m and 8.30m depth.	8					
									Assessed Zone of Core Loss.	9					
											White extremely to very weak low to mediun density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clena wit hlight brown staining. (Grade C4)				
									None Intact between 9.74m and 9.80m depth.	10					
Continued on Next Sheet															

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-23

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525170.21 - 234465.27

Location: Baldock, North Hertfordshire

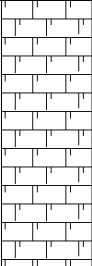
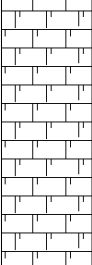
Level: 63.65

Scale
1:25

Client: Urban & Civic

Dates: 07/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00								White extremely to very weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fractures are very closely to closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clean with light brown staining. (Grade C4) <i>None Intact between 10.00m and 10.29m depth.</i> <i>None Intact between 10.44m and 10.50m depth.</i> <i>None Intact between 10.62m and 10.89m depth.</i>	
							11.89	51.76		End of Borehole at 11.00m	11
											12
											13
											14
											15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-26

Sheet 1 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234501.97 - 524878.82

Location: Baldock, North Hertfordshire

Level: 60.58

Client: Urban & Civic

Dates: 21/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.40	60.18		Grass over TOPSOIL-Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to sub-angular of flint.	
										Structureless CHALK composed of brown and orange brown mottled white gravelly SILT. Gravel is angular fine to coarse extremely weak low to medium density chalk. (Grade Dm)	1
		N=24 (2,1/5,6,6,7)									
		1.20 - 2.00					1.68	58.90			
		1.20 - 2.70		32	0	0				Assessed Zone of Core Loss.	2
		2.00 - 3.50					2.70	57.88		Structureless CHALK composed of off white mottled brown and orange brown gravelly SILT. Gravel is angular fine to medium extremely weak low to medium density chalk. (Grade Dm)	3
		2.70 - 4.20		92	0	0	3.36	57.22		Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4)	
										None Intact between 3.78m and 4.08m depth.	
							4.08	56.50		Assessed Zone of Core Loss.	4
		3.50 - 5.00					4.20	56.38		Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4)	
		4.20 - 5.70		99	0	0					
										Continued on Next Sheet	5

Remarks

Water level maintained at 8.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-26

Sheet 2 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234501.97 - 524878.82

Location: Baldock, North Hertfordshire

Level: 60.58

Client: Urban & Civic

Dates: 21/05/2024

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50					5.68 5.70	54.90 54.88		Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4)	6
										Assessed Zone of Core Loss.	
										Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4)	
		5.70 - 7.20		91	0	0					
										None Intact between 6.66m and 7.06m depth.	
							7.06	53.52			
		6.50 - 8.00					7.20	53.38		Assessed Zone of Core Loss.	
										Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4)	
		7.20 - 8.70		95	0	0				None Intact between 7.77m and 8.00m depth.	
										None Intact between 8.10m and 8.35m depth.	
		8.00 - 9.50					8.62 8.70	51.96 51.88		Assessed Zone of Core Loss.	9
										Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4)	
		8.70 - 10.20		93	0	0				None Intact between 9.47m and 10.09m depth.	
										Continued on Next Sheet	10

Remarks

Water level maintained at 8.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-26

Sheet 3 of 3

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 234501.97 - 524878.82

Location: Baldock, North Hertfordshire

Level: 60.58

Scale
1:25

Client: Urban & Civic

Dates: 21/05/2024

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							10.09	50.49		Off white mottled orange brown extremely weak low to medium density CHALK with core disturbance due to inclined fractures. Horizontal fracture are very closely to medium spaced undulating rough tight to partly open with silty fine gravel infil. (Grade C4) Assessed Zone of Core Loss. End of Borehole at 10.20m	
							10.20	50.38			
											11
											12
											13
											14
											15

Remarks

Water level maintained at 8.0m depth due to use of water flush. Accurate reading of true groundwater depth not possible due to use of water flush. Terminated at scheduled depth.





Rotary Core Log

Borehole No.

RO-R1-01

Sheet 1 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525980.26 - 234735.48

Location: Baldock, North Hertfordshire

Level: 71.05

Client: Urban & Civic

Dates: 15/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description		
				TCR	SCR	RQD						
							0.30	70.75		TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Gravel is angular to sub-angular fine to coarse chalk.		
							0.40	70.65		Soft light brown slightly sandy slightly gravelly CALY. Gravel is angular to sub-rounded chalk. Structureless CHALK composed of white weak medium to high density coarse sub-angular to sub-rounded GRAVEL of CHALK.		
		N=47 (5,8/10,12,11,14) 1.20 - 2.00					1.72	69.33		Non-intact between 1.2m and 1.72m	1	
				65	0	0				Assessed Zone of Core Loss.		
		2.00 - 3.50					2.00	69.05		White weak low to medium density CHALK with core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very close to closely spaced undulating rough tight clean. Vertical/inclined joint are closed, undulating rough, clean with localised light grey and orange brown staining. Non-intact between 2m and 2.57m	2	
				96	0	0	3.40 3.50	67.65 67.55		Assessed Zone of Core Loss.		
		3.50 - 5.00								White weak low to medium density CHALK with core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very close to closely spaced undulating rough tight clean. Vertical/inclined joint are closed, undulating rough, clean with localised light grey and orange brown staining. Non-intact between 3.5m and 4.5m	3	
				100	27	0						
		4.73 - 4.80		C							4	
										Continued on Next Sheet	5	

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-01

Sheet 2 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525980.26 - 234735.48

Location: Baldock, North Hertfordshire

Level: 71.05

Client: Urban & Civic

Dates: 15/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description					
				TCR	SCR	RQD									
		5.00 - 6.50	C	99	51	29				White weak low to medium density CHALK with core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very close to closely spaced undulating rough tight clean. Vertical/inclined joint are closed, undulating rough, clean with localised light grey and orange brown staining.	6				
		6.20 - 6.38													
		6.50 - 8.00	C	100	0	0					7				
		7.44 - 7.52													
		Non-intact between 7.6m and 7.8m									8				
		Non-intact between 8.15m and 8.6m													
		8.00 - 9.50	C	97	9	9					9				
		9.18 - 9.30													
		Non-intact between 9.5m and 11m									10				
		Continued on Next Sheet													

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-01

Sheet 3 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525980.26 - 234735.48

Location: Baldock, North Hertfordshire

Level: 71.05

Scale
1:25

Client: Urban & Civic

Dates: 15/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00		100	28	0	11.00	60.05		White weak low to medium density CHALK with core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very close to closely spaced undulating rough tight clean. Vertical/inclined joint are closed, undulating rough, clean with localised light grey and orange brown staining.	11
		11.00 - 12.50		100	35	17				Cream slightly sandy weak medium density CHALK with occasional wispy marl bands and with core disturbance along vertical/steeply inclined fractures. Bedding fractures are extremely close to closely spaced undulating rough tight clean to partly open with cream silt matrix infill. Vertical/inclined joint are closed, undulating rough, clean. <u>Non-intact between 11m and 11.2m</u> <u>Non-intact between 11.6m and 11.8m</u>	
		12.50 - 14.00		98	11	0	12.85	58.20		<u>Non-intact between 12.35m and 12.5m</u> <u>Non-intact between 12.5m and 12.65m</u>	12
										Non-intact Core Recovery: Cream and light brown weak medium density marly CHALK.	
		14.00 - 15.50		87	27	7	14.00	57.05		Cream slightly sandy weak medium density CHALK with occasional wispy marl bands and with core disturbance along vertical/steeply inclined fractures. Bedding fractures are extremely close to closely spaced undulating rough tight clean to partly open with cream silt matrix infill. Vertical/inclined joint are closed, undulating rough, clean. <u>Non-intact between 14m and 14.25m</u> <u>Non-intact between 14.35m and 14.8m</u>	14
Continued on Next Sheet											15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-01

Sheet 4 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525980.26 - 234735.48

Location: Baldock, North Hertfordshire

Level: 71.05

Client: Urban & Civic

Dates: 15/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							15.30	55.75		Cream slightly sandy weak medium density CHALK with occasional wispy marl bands and with core disturbance along vertical/steeply inclined fractures. Bedding fractures are extremely close to closely spaced undulating rough tight clean to partly open with cream silt matrix infill. Vertical/inclined joint are closed, undulating rough, clean. <i>Non-intact between 15.1m and 15.3m</i> Assessed Zone of Core Loss. End of Borehole at 15.50m	
							15.50	55.55			
											16
											17
											18
											19
											20

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-02

Sheet 1 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 526035.85 - 234749.69

Location: Baldock, North Hertfordshire

Level: 72.40

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	72.10		TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Gravel is angular to sub-angular fine to coarse chalk.	
							0.40	72.00		Soft light brown slightly sandy slightly gravelly CALY. Gravel is angular to sub-rounded chalk. Structureless CHALK composed of white locally speckled black weak high density coarse sub-angular GRAVEL of CHALK.	
		N=38 (4,6/10,8,9,11)									
		1.20 - 2.00		71	0	0	1.77	70.63		Non-intact between 1.2m and 1.3m.	1
							2.00	70.40		Assessed Zone of Core Loss.	2
		2.00 - 3.50		100	93	0				White locally speckled black very weak medium density CHALK with core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough, tight clean. Vertical / steeply inclined fractures are undulating rough tight clean with localised orange brown/brown staining and black speckling.	
		2.96 - 3.02	C							... single black flint observed at 2.94m.	3
		3.52 - 3.56	C							... with black speckling on joint surfaces from 3.50m.	
		3.50 - 5.00		100	100	20					4
							5.00	67.40		... with light orange brown staining from 4.60m.	
										Continued on Next Sheet	5

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-02

Sheet 2 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 526035.85 - 234749.69

Location: Baldock, North Hertfordshire

Level: 72.40

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50	C	100	15	15	6.30	66.10		White slightly stained orange brown weak medium to high density CHALK with core disturbance due to vertical/steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough, tight clean. Vertical /steeply inclined fractures are undulating rough tight clean with localised orange brown/brown staining and black speckling.	6
							6.50	65.90		Non-intact Core Recovery: White silty fine to coarse angular GRAVEL of weak low density chalk.	
		6.50 - 8.00		100	33	33	7.12	65.28		White slightly stained orange brown weak medium to high density CHALK. Bedding fractures are very closely to closely spaced undulating rough, tight clean with light grey staining.	7
		7.58 - 7.75								White locally speckled black very weak medium density CHALK. Bedding fractures are very closely to closely spaced undulating rough.	
										... with orange brown staining from 7.80m.	
		8.00 - 9.50		99	0	0	8.00	64.40		White occasionally mottled orange brown weak low to medium density CHALK with some core disturbance along vertical/steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough, tight clean. Vertical/steeply inclined fractures are undulating rough tight clean with some light grey brown staining.	8
							9.34	63.06		Non Intact Core Recovery: White silty angular fine to coarse GRAVEL of weak low density CHALK.	
							9.48	62.92		Assessed Zone of Core Loss.	
							9.50	62.90		White mottled orange brown weak medium density CHALK with some core disturbance due to steeply inclined fractures. Inclined fractures are undulating rough tight clean.	
										Non-intact between 9.65m and 10.4m.	10

Continued on Next Sheet

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-02

Sheet 3 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 526035.85 - 234749.69

Location: Baldock, North Hertfordshire

Level: 72.40

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00	C	99	0	0	10.98 11.00 				

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R1-02

Sheet 4 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 526035.85 - 234749.69

Location: Baldock, North Hertfordshire

Level: 72.40

Scale
1:25

Client: Urban & Civic

Dates: 14/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							15.36	57.04		Non-intact Core Recovery: Light brown mottled orange brown angular medium to coarse GRAVEL of weak medium to high density chalk.	
							15.50	56.90		Assessed Zone of Core Loss.	
										End of Borehole at 15.50m	

Remarks
No groundwater identified





Rotary Core Log

Borehole No.
RO-R2/R3-01

Sheet 1 of 4
Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525233.39 - 234461.45

Location: Baldock, North Hertfordshire

Level: 64.22

Client: Urban & Civic

Dates: 21/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description						
				TCR	SCR	RQD										
		N=28 (4,4/9,10,6,3) 1.20 - 2.00					0.30	63.92		TOPSOIL: Brown friable slightly sandy slightly gravelly CLAY with low root content. Gravel is angular to sub-angular fine to coarse chalk. Soft light brown slightly sandy slightly gravelly CLAY with pockets of orange brown gravelly clayey sand. Gravel is angular fine to coarse chalk and flint. ... no orange brown mottling from 0.45m.	1					
							1.20	63.02		Non-intact Core Recovery: Black coarse angular black flint GRAVEL.						
							1.35	62.87		Non-intact Core Recovery: Structureless CHALK composed of white and orange brown silty angular fine to coarse GRAVEL of chalk and occasional flint.						
							1.80	62.42		Assessed Zone of Core Loss.						
							2.00	62.22				Non-intact Core Recovery: Structureless CHALK composed of white with occasional orange brown staining angular fine to coarse GRAVEL of weak medium density chalk.				
		2.00 - 3.50		91	0	0					2					
		3.50 - 5.00		100	77	0	3.35	60.87			3					
							3.50	60.72		Assessed Zone of Core Loss.						
							3.70	60.52		Non-intact Core Recovery: Structureless CHALK composed of white angular coarse GRAVEL of weak medium density chalk. White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.						
											4					
											5					
Continued on Next Sheet																

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R2/R3-01

Sheet 2 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525233.39 - 234461.45

Location: Baldock, North Hertfordshire

Level: 64.22

Scale
1:25

Client: Urban & Civic

Dates: 21/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50		100	0	0	7.97 8.00	56.25 56.22		White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining. <u>Non-intact between 5m and 5.14m.</u> <u>... slightly silty between 5.60m and 6.0m.</u> <u>Non-intact between 5.78m and 6.5m.</u>	6
		6.50 - 8.00		98	0	0				7	
		8.00 - 9.50		100	6	0				Assessed Zone of Core Loss. White with black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough tight clean with light grey brown staining and black speckling. Inclined fractures are undulating rough tight clean with light grey brown staining. <u>Non-intact between 8m and 9.04m.</u>	8
										<u>Non-intact between 9.15m and 9.5m.</u> <u>Non-intact between 9.5m and 11m.</u>	9
Continued on Next Sheet											10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.
RO-R2/R3-01

Sheet 3 of 4
Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525233.39 - 234461.45

Location: Baldock, North Hertfordshire

Level: 64.22

Client: Urban & Civic

Dates: 21/11/2023

Scale
1:25
Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description				
				TCR	SCR	RQD								
		10.50 - 11.00	C	100	0	0	11.35	52.87		White with black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough tight clean with light grey brown staining and black speckling. Inclined fractures are undulating rough tight clean with light grey brown staining.	11			
		11.00 - 12.50		99	0	0				Cream weak medium density CHALK with very closely to closely spaced wispy marl seams. Bedding fractures are closely spaced undulating rough tight clean with light brown staining. Inclined fractures are undulating rough tight clean with light brown staining.	12			
		12.50 - 14.00		100	12	0				12.48 12.50	51.74 51.72	Assessed Zone of Core Loss. Cream weak medium density CHALK with very closely to closely spaced wispy marl seams. Bedding fractures are very closely to closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.	13	
		14.00 - 15.50		100	0	0				14.78	49.44		Non-intact Core Recovery: White very weak low density CHALK with shaley texture.	14
													Continued on Next Sheet	15

Remarks
No groundwater identified





Rotary Core Log

Borehole No.
RO-R2/R3-01

Sheet 4 of 4
Hole Type
RC

Scale
1:25
Logged By
SJF

Project Name: Baldock Project No. 2899 Co-ords: 525233.39 - 234461.45

Location: Baldock, North Hertfordshire Level: 64.22

Client: Urban & Civic Dates: 21/11/2023

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							15.50	48.72		Non-intact Core Recovery: White very weak low density CHALK with shaley texture.	
										End of Borehole at 15.50m	
											16
											17
											18
											19
											20

Remarks
No groundwater identified





Rotary Core Log

Borehole No.
RO-R2/R3-02

Sheet 1 of 4
Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525264.86 - 234455.33

Location: Baldock, North Hertfordshire

Level: 64.46

Client: Urban & Civic

Dates: 22/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description					
				TCR	SCR	RQD									
		N=40 (2,5/6,10,9,15) 1.20 - 2.00	C	56	0	0	0.40	64.06		TOPSOIL: Brown friable slightly sandy slightly gravelly CLAY with low root content. Gravel is angular to sub-angular fine to coarse chalk.	1				
							0.80	63.66				Soft light brown slightly sandy slightly gravelly CLAY with pockets of orange brown gravelly clayey sand. Gravel is angular fine to coarse chalk and flint.			
							1.20	63.26		Structureless CHALK composed of cream mottled orange brown silty angular fine to coarse GRAVEL of chalk and black flint.		-			
							1.45	63.01		Non-intact Core Recovery: Black coarse angular black flint GRAVEL.					
							1.65	62.81		Non-intact Core Recovery: Structureless CHALK composed of cream mottled orange brown silty angular fine to coarse GRAVEL of chalk and black flint.					
							2.00		62.46			Assessed Zone of Core Loss.		2	
							2.00 - 3.50		87	0		0		Non-intact Core Recovery: Structureless CHALK composed of cream mottled orange brown silty angular fine to coarse GRAVEL of chalk and black flint.7	3
		4.20 - 4.28 3.50 - 5.00		100	14	0	3.30	61.16		Assessed Zone of Core Loss.	4				
							3.50	60.96				Non-intact Core Recovery: Structureless CHALK composed of cream mottled orange brown silty angular fine to coarse GRAVEL of chalk and black flint.7			
							3.90	60.56		White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.					
							Continued on Next Sheet					5			

Remarks
No groundwater identified





Rotary Core Log

Borehole No.
RO-R2/R3-02

Sheet 2 of 4
Hole Type
RC

Scale
1:25

Logged By
SJF

Project Name: Baldock

Project No. 2899

Co-ords: 525264.86 - 234455.33

Location: Baldock, North Hertfordshire

Level: 64.46

Client: Urban & Civic

Dates: 22/11/2023

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description					
				TCR	SCR	RQD									
		5.00 - 6.50	C	99	3	0	6.48 6.50	57.98 57.96		White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.	6				
		7.09 - 7.17		100	23	0				Assessed Zone of Core Loss.		White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.	7		
		6.50 - 8.00													
		8.00 - 9.50		99	0	0				9.49 9.50	54.97 54.96		Assessed Zone of Core Loss.	White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.	8
											10				

Remarks
No groundwater identified





Rotary Core Log

Borehole No.
RO-R2/R3-02

Sheet 3 of 4
Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525264.86 - 234455.33

Location: Baldock, North Hertfordshire

Level: 64.46

Client: Urban & Civic

Dates: 22/11/2023

Scale
1:25
Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00	C	99	0	0	10.98 11.00	53.48 53.46		White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining.	11 <

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R2/R3-02

Sheet 4 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525264.86 - 234455.33

Location: Baldock, North Hertfordshire

Level: 64.46

Scale
1:25

Client: Urban & Civic

Dates: 22/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							15.30	49.16		White with occasional orange brown staining weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean with orange brown staining. Inclined fractures are undulating rough tight clean with orange brown staining. Assessed Zone of Core Loss. End of Borehole at 15.50m	
							15.50	48.96			
											16
											17
											18
											19
											20

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-01

Sheet 1 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525636.45 - 234579.44

Location: Baldock, North Hertfordshire

Level: 65.36

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description		
				TCR	SCR	RQD						
							0.40	64.96		TOPSOIL: Brown friable slightly sandy slightly gravelly CLAY. Gravel is angular to sub-angular fine to coarse chalk.		
							0.60	64.76		Soft grey brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular fine to coarse chalk and rare flint.		
		N=41 (6,6/9,10,10,12) 1.20 - 2.00					1.20	64.16		Structureless CHALK composed of cream mottled orange brown slightly silty angular fine to coarse GRAVEL of weak low to medium density chalk with cream silty matrix fill.	1	
										No Recovery		
		2.00 - 3.50		87	0	0	2.00	63.36		Non-intact Core Recovery: Structureless CHALK composed of white mottle orange brown slightly silty angular fine to coarse GRAVEL of weak low to medium density chalk.	2	
							3.30	62.06		Assessed Zone of Core Loss.	3	
							3.50	61.86		Non-intact Core Recovery: Structureless CHALK composed of white mottle orange brown slightly silty angular fine to coarse GRAVEL of weak low to medium density chalk.		
		3.50 - 5.00		93	0	0					4	
							4.90	60.46		Assessed Zone of Core Loss.	5	
							5.00	60.36		Continued on Next Sheet		

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-01

Sheet 2 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525636.45 - 234579.44

Location: Baldock, North Hertfordshire

Level: 65.36

Client: Urban & Civic

Dates: 16/11/2023

Scale
1:25

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50	C	100	0	0				Non-intact Core Recovery: White mottled orange brown weak low to medium density CHALK recovered as slightly silty angular fine to coarse GRAVEL of weak low to medium density chalk. Bedding fractures are extremely closely to closely spaced undulating rough tight to open with light brown silt infill. Inclined fractures cannot be identified due to non-intact nature of core recovery.	6
		7.09 - 7.20									7
		6.50 - 8.00		90	0	0				... strong orange brown staining between	
							7.85	57.51			
							8.00	57.36		Assessed Zone of Core Loss.	8
		8.00 - 9.50		100	0	0				Non-intact Core Recovery: White mottled orange brown weak low to medium density CHALK recovered as slightly silty angular fine to coarse GRAVEL. Bedding fractures are extremely closely to closely spaced undulating rough tight to open with light brown silt infill. Inclined fractures cannot be identified due to non-intact nature of core recovery.	9
							8.95	56.41		White mottle orange brown weak medium density CHALK. Bedding fractures are medium spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	10
										Continued on Next Sheet	

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-01

Sheet 3 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525636.45 - 234579.44

Location: Baldock, North Hertfordshire

Level: 65.36

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		9.50 - 11.00		93	0	0	10.90 11.00	54.46 54.36		White mottle orange brown weak medium density CHALK. Bedding fractures are medium spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	11		
		Assessed Zone of Core Loss.											
		11.00 - 12.50		89	0	0	12.34 12.50	53.02 52.86			White mottled orange brown and black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are medium spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	12	
											Assessed Zone of Core Loss.		
		12.50 - 14.00		95	0	0	13.30 13.40	52.06 51.96			White mottled orange brown and black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are medium spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	13	
											Non-intact Core Recovery: White angular fine GRAVEL of weak low density chalk.		
		14.00 - 15.50		91	0	0	13.92 14.00	51.44 51.36			White mottled orange brown and black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are closely to medium spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	14	
											Assessed Zone of Core Loss.		
												White mottled orange brown and black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling.	15
												Assessed Zone of Core Loss.	
										Continued on Next Sheet			

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-01

Sheet 4 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525636.45 - 234579.44

Location: Baldock, North Hertfordshire

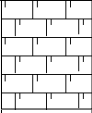
Level: 65.36

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		15.16 - 15.42	C				15.36	50.00		White mottled orange brown and black speckling weak medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are very closely to closely spaced undulating rough tight clean with black speckling. Inclined fractures are undulating rough tight clean with orange brown staining and black speckling. Assessed Zone of Core Loss. End of Borehole at 15.50m	16
							15.50	49.86			17
											18
											19
											20

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-02

Sheet 1 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525684.17 - 234599.75

Location: Baldock, North Hertfordshire

Level: 65.95

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		N=50 (3,7/50 for 270mm) 1.20 - 2.00 2.00 - 3.50 3.50 - 5.00					0.40	65.55		TOPSOIL: Brown friable slightly sandy slightly gravelly CLAY. Gravel is angular to sub-angular fine to coarse of chalk and occasional flint.	1
										Structureless CHALK composed of white silty angular fine to coarse GRAVEL of weak low to medium density chalk.	
							1.20	64.75		Non-intact Core Recovery: Structureless CHALK composed of white silty angular fine to coarse GRAVEL of weak low to medium density chalk.	2
				94	0	0				Assessed Zone of Core Loss.	
							1.95 2.00	64.00 63.95		Non-intact Core Recovery: Structureless CHALK composed of white silty angular fine to coarse GRAVEL of weak low to medium density chalk.	
										Assessed Zone of Core Loss.	
				97	0	0				White weak medium density CHALK possibly becoming structured with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to closely spaced undulating rough tight clean. Inclined fractures are undulating rough tight clean.	4
							3.45 3.50	62.50 62.45		Assessed Zone of Core Loss.	
										Assessed Zone of Core Loss.	5
							4.98 5.00	60.97 60.95		Assessed Zone of Core Loss.	

Continued on Next Sheet

Remarks

No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-02

Sheet 2 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525684.17 - 234599.75

Location: Baldock, North Hertfordshire

Level: 65.95

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		5.00 - 6.50	C	100	0	0				White weak medium density CHALK possibly becoming structured with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to closely spaced undulating rough tight clean. Inclined fractures are undulating rough tight clean.	6
		6.82 - 6.88									
		6.50 - 8.00		97	0	0					
		8.00 - 9.50		94	0	0	7.96 8.00	57.99 57.95		Assessed Zone of Core Loss. Cream / grey weak low to medium density CHALK with core disturbance due to vertical / steeply inclined fractures. Bedding fractures are extremely closely to closely spaced undulating rough tight clean. Inclined fractures are undulating rough tight clean.	8
							9.41 9.50	56.54 56.45		Assessed Zone of Core Loss.	9
									Cream / grey weak low to medium density CHALK with shaley texture. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean locally partly open with silt infill. Inclined fractures are undulating rough tight clean.		
										Continued on Next Sheet	10

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-02

Sheet 3 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525684.17 - 234599.75

Location: Baldock, North Hertfordshire

Level: 65.95

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		9.50 - 11.00	C	98	0	0	10.97 11.00	54.98 54.95		Cream / grey weak low to medium density CHALK with shaley texture. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean locally partly open with silt infill. Inclined fractures are undulating rough tight clean.	11 <

Remarks
No groundwater identified





Rotary Core Log

Borehole No.

RO-R5-02

Sheet 4 of 4

Hole Type
RC

Project Name: Baldock

Project No.
2899

Co-ords: 525684.17 - 234599.75

Location: Baldock, North Hertfordshire

Level: 65.95

Scale
1:25

Client: Urban & Civic

Dates: 16/11/2023

Logged By
SJF

Well	Water Strikes	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							15.45	50.50		Cream / grey weak low to medium density CHALK with shaley texture. Bedding fractures are extremely closely to very closely spaced undulating rough tight clean locally partly open with silt infill. Inclined fractures are undulating rough tight clean. Assessed Zone of Core Loss. End of Borehole at 15.50m	
							15.50	50.45			
											16
											17
											18
											19
											20

Remarks

No groundwater identified



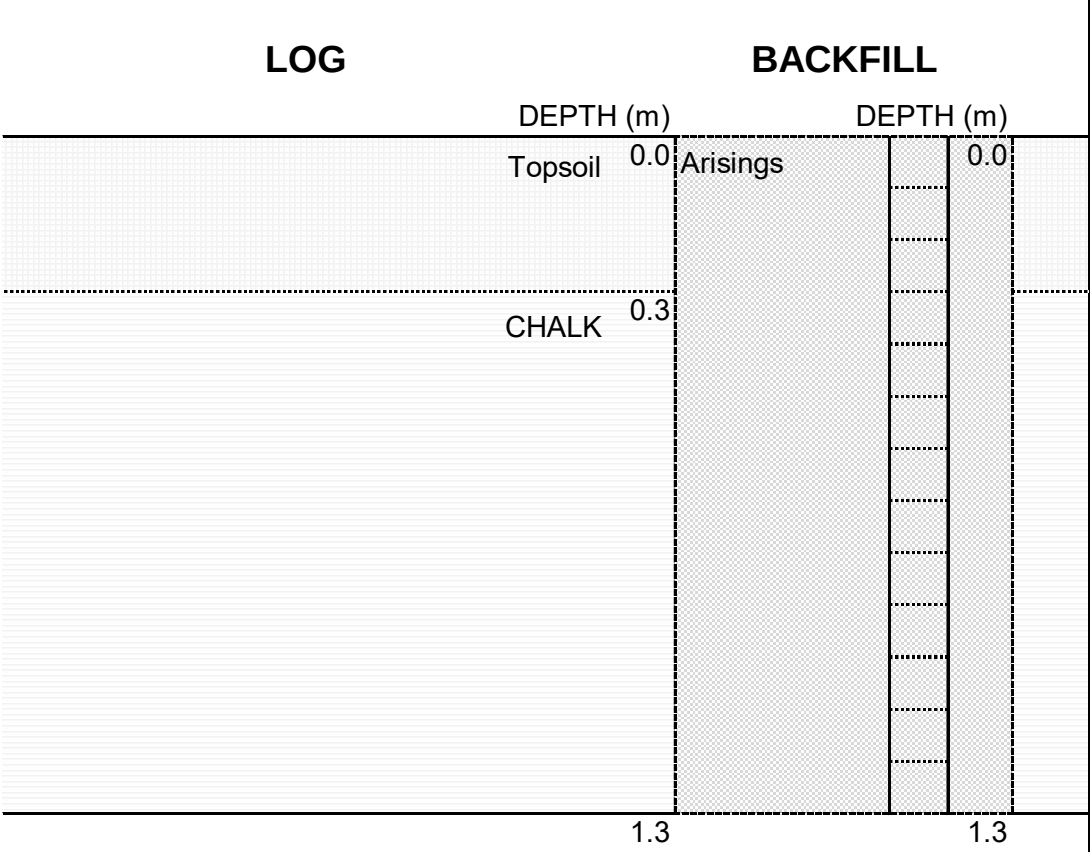
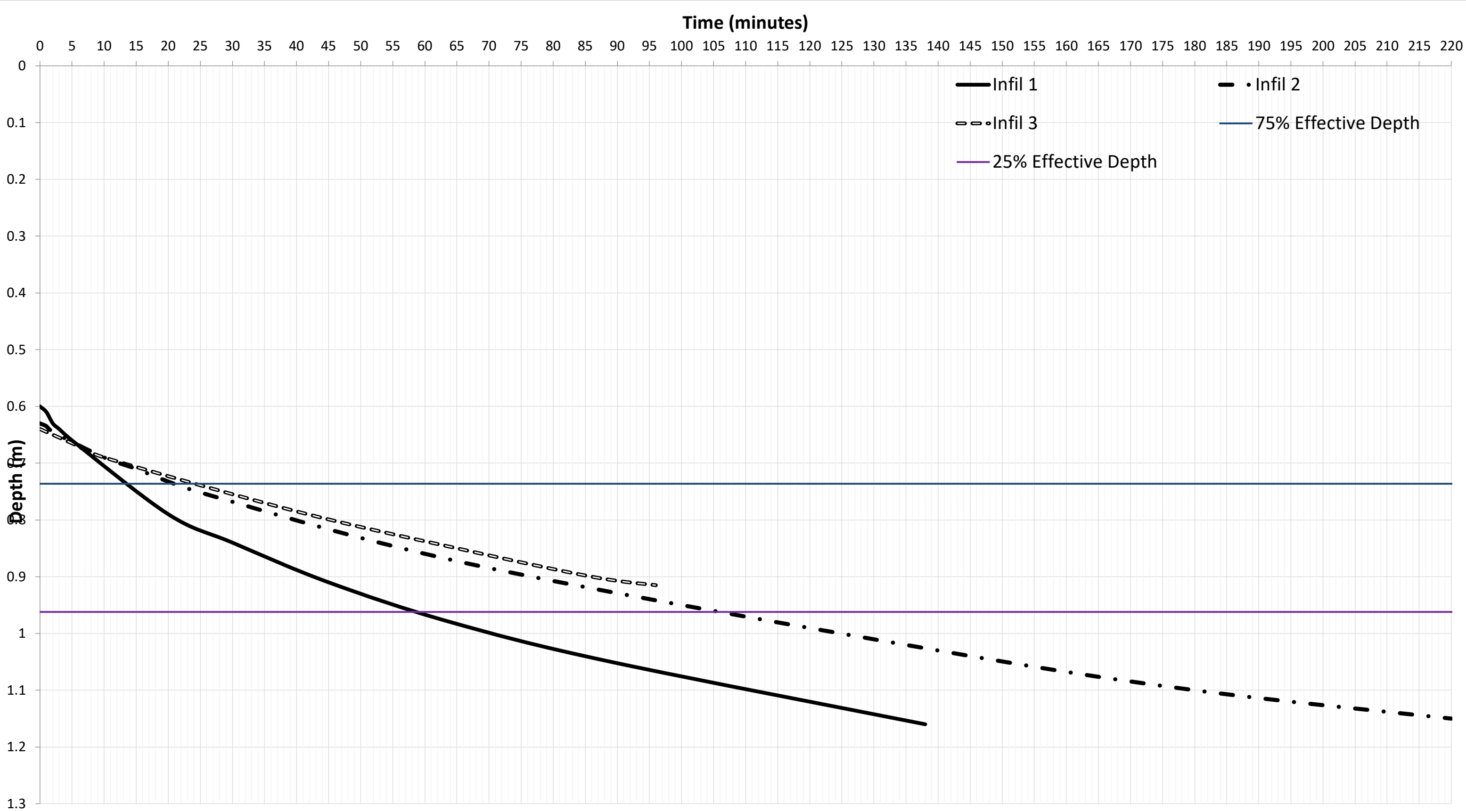
	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.16	1.15	0.92
Pit depth	m	1.30		
Pit length	m	1.70		
Pit width	m	0.70		
Depth to first reading	m	0.60	0.63	0.64
Maximum effective depth	m	0.56	0.52	0.28
Depth at 75% full	m	0.74	0.76	0.71
Depth at 25% full	m	1.02	1.02	0.85
Time at 75% full	mins	18.27	40.28	15.92
Time at 25% full	mins	122.41	206.00	63.56
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.417	0.399	0.164
Mean surface area for outflow (50% effective depth)	m2	2.87	2.80	2.77
Time for outflow	mins	104.14	165.72	47.64
Soil infiltration rate, f =		0.0000232255	0.0000143291	0.0000206372
or		2.32E-05	1.43E-05	2.06E-05

Recommended soil infiltration rate

1.43E-05m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fill 3 - Soil infiltration rate based on effective drainage only



PROJECT NAME
Baldock North
CLIENT
Urban and Civic

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

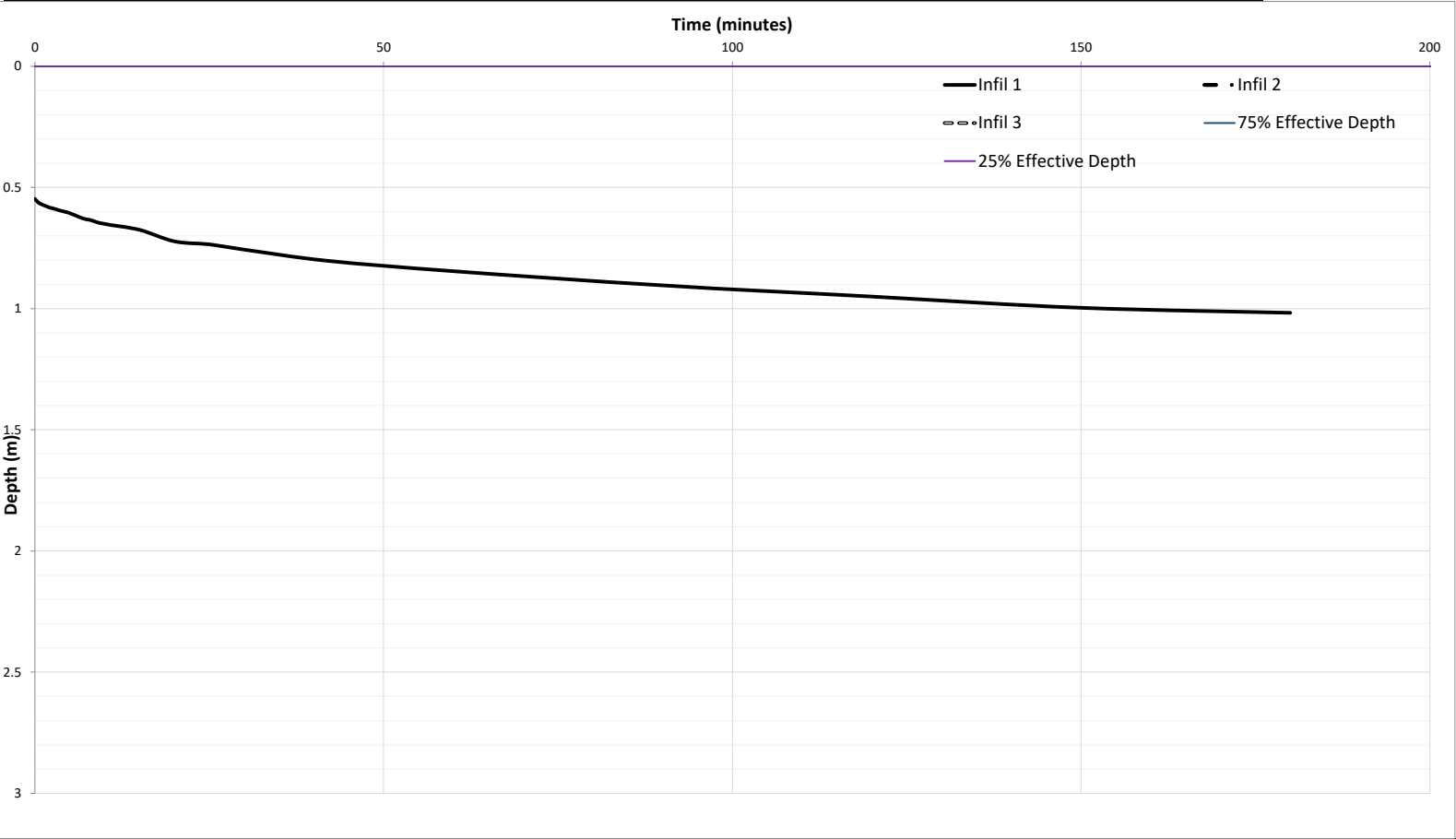
DATE
May-24
PROJECT NUMBER
2899.00
SOAKAWAY NUMBER
TP-068
FILL NUMBER
1-3

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.02		
Pit depth	m		1.30	
Pit length	m		1.75	
Pit width	m		0.50	
Depth to first reading	m	0.55		
Maximum effective depth	m	0.47		
Depth at 75% full	m	0.66		
Depth at 25% full	m	0.90		
Time at 75% full	mins	12.81		
Time at 25% full	mins	87.71		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.206		
Mean surface area for outflow (50% effective depth)	m2	2.57		
Time for outflow	mins	74.90		
Soil infiltration rate, f =		0.0000178090		
or		1.78E-05		

Recommended soil infiltration rate	
1.78E-05	m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fills 1 and 3 - Soil infiltration rate based on effective drainage only



LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Scrub over TOPSOIL	0.0	Arisings	0.0
Weak to moderately strong white CHALK	0.3		
	1.3		1.3

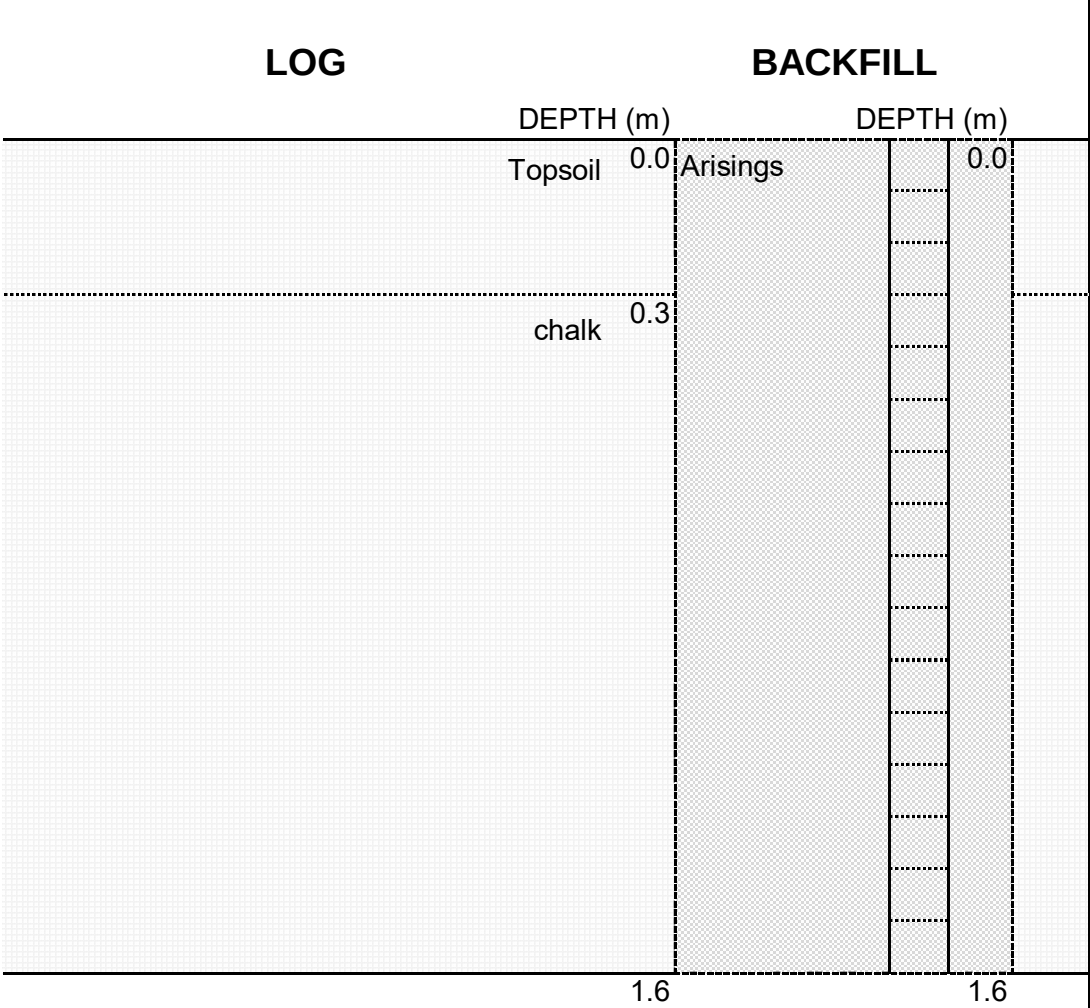
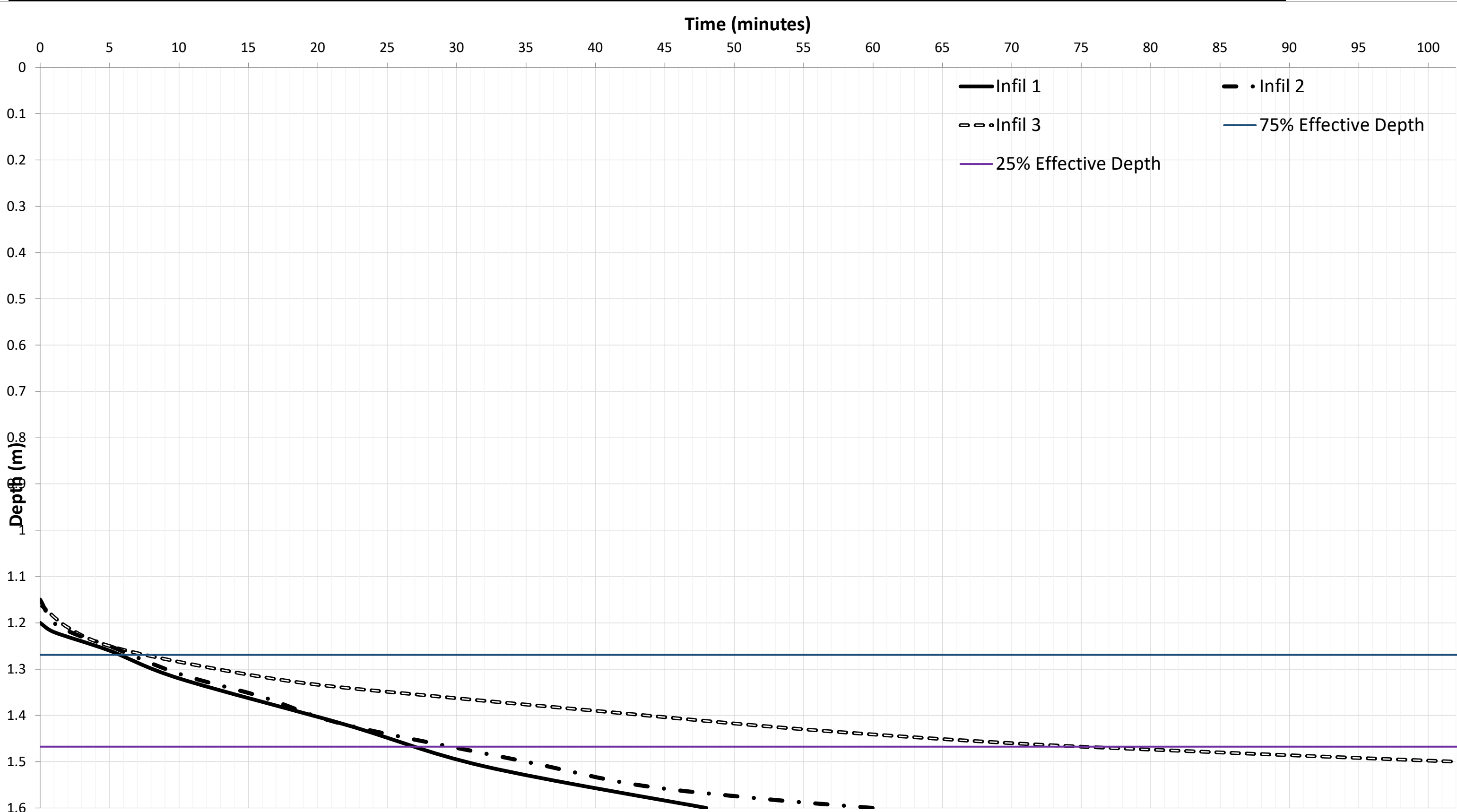
	PROJECT NAME	SOAKAWAY TEST RESULTS	DATE	PROJECT NUMBER
	Baldock		Nov-23	2899.00
	CLIENT		SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)	TP-010	1

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.60	1.60	1.50
Pit depth	m	1.60		
Pit length	m	1.70		
Pit width	m	0.70		
Depth to first reading	m	1.20	1.15	1.16
Maximum effective depth	m	0.40	0.45	0.34
Depth at 75% full	m	1.30	1.26	1.25
Depth at 25% full	m	1.50	1.49	1.42
Time at 75% full	mins	8.33	6.04	8.00
Time at 25% full	mins	30.89	32.97	93.50
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.238	0.268	0.262
Mean surface area for outflow (50% effective depth)	m2	2.15	2.27	2.25
Time for outflow	mins	22.56	26.93	85.50
Soil infiltration rate, f =		0.0000817963	0.0000730068	0.0000227218
or		8.18E-05	7.30E-05	2.27E-05

Recommended soil infiltration rate

2.27E-05

m/s



PROJECT NAME
Baldock North

CLIENT
Urban and Civic

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE
May-24

PROJECT NUMBER
2899.00

SOAKAWAY NUMBER
SA03

FILL NUMBER
1-3

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	0.79		
Pit depth	m		1.30	
Pit length	m		1.80	
Pit width	m		0.70	
Depth to first reading	m	0.58		
Maximum effective depth	m	0.21		
Depth at 75% full	m	0.63		
Depth at 25% full	m	0.74		
Time at 75% full	mins	19.75		
Time at 25% full	mins	107.92		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.132		
Mean surface area for outflow (50% effective depth)	m2	3.06		
Time for outflow	mins	88.17		
Soil infiltration rate, f =		0.0000081730		
or		8.17E-06		

Recommended soil infiltration rate

8.17E-06m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fill 1 - Soil infiltration rate based on effective drainage only



LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Topsoil	0.0	Arisings	0.0
SAND	0.2		
CHALK	0.5		
	1.3		1.3



PROJECT NAME	Baldock North
CLIENT	Urban and Civic

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE	May-24	PROJECT NUMBER	2899.00
SOAKAWAY NUMBER	TP-131	FILL NUMBER	1

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.14	1.09	1.11
Pit depth	m	1.20		
Pit length	m	1.40		
Pit width	m	0.50		
Depth to first reading	m	0.54	0.66	0.59
Maximum effective depth	m	0.60	0.43	0.52
Depth at 75% full	m	0.69	0.77	0.72
Depth at 25% full	m	0.99	0.98	0.98
Time at 75% full	mins	4.66	8.59	10.74
Time at 25% full	mins	27.97	48.81	48.97
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.231	0.188	0.182
Mean surface area for outflow (50% effective depth)	m2	1.95	1.72	1.86
Time for outflow	mins	23.31	40.22	38.23
Soil infiltration rate, f =		0.0000845236	0.0000453115	0.0000426799
or		8.45E-05	4.53E-05	4.27E-05

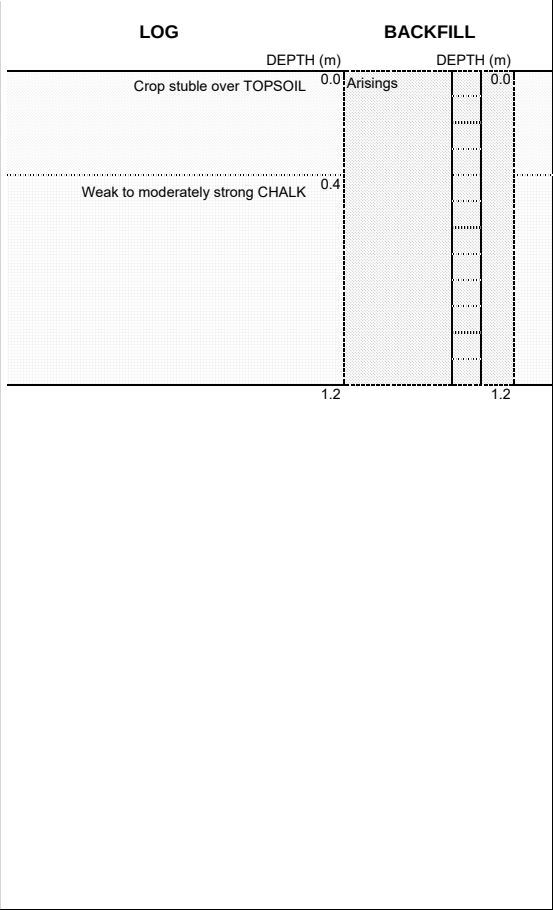
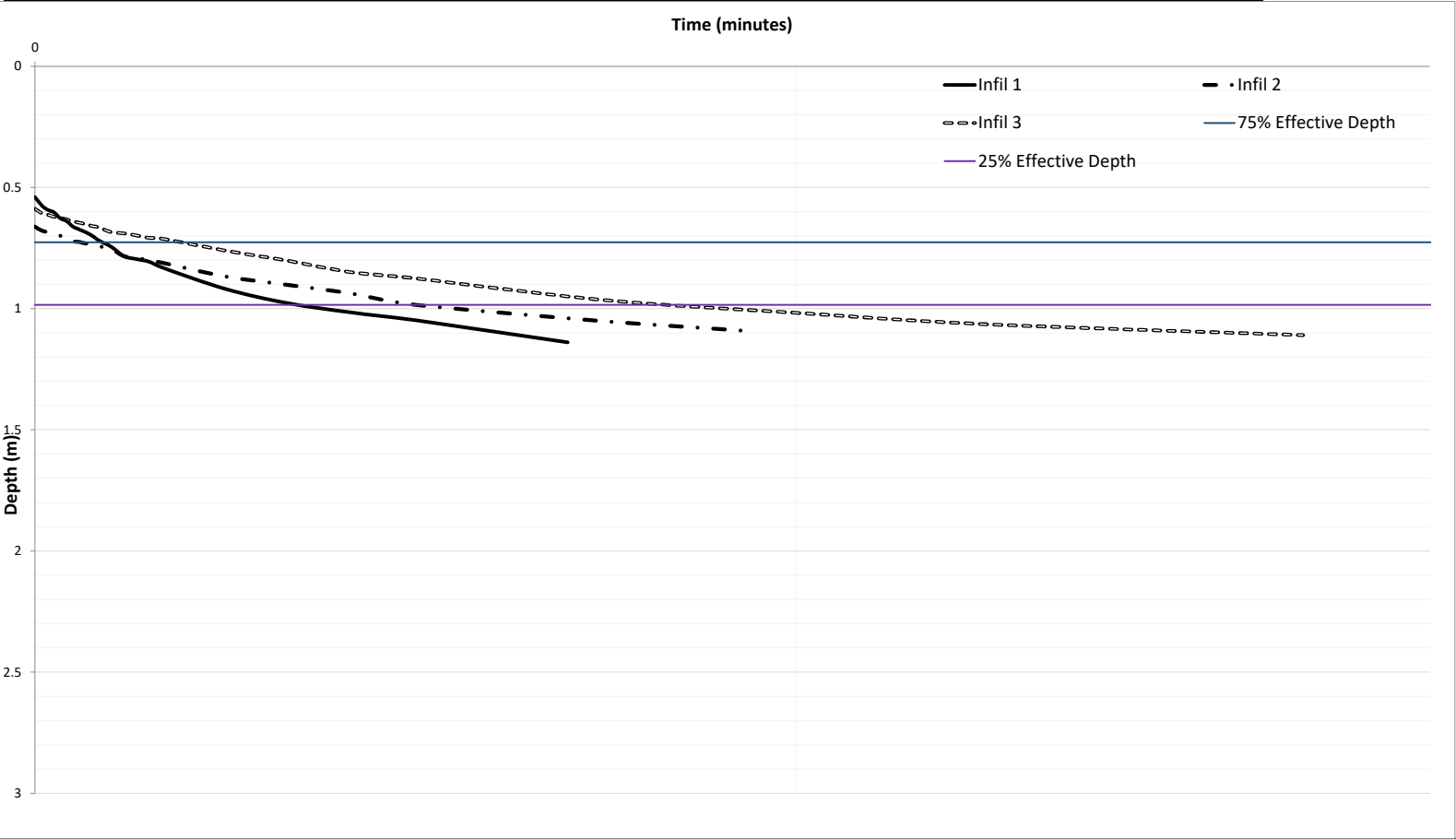
Recommended soil infiltration rate

4.27E-05

m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fill 3 - Soil infiltration rate based on effective drainage only



	PROJECT NAME	SOAKAWAY TEST RESULTS		DATE	PROJECT NUMBER
	Baldock			Nov-23	2899.00
	CLIENT			SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)		TP-039	1-3

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.34	1.36	1.33
Pit depth	m	1.40		
Pit length	m	1.80		
Pit width	m	0.50		
Depth to first reading	m	0.82	0.61	0.79
Maximum effective depth	m	0.52	0.75	0.54
Depth at 75% full	m	0.95	0.80	0.92
Depth at 25% full	m	1.21	1.17	1.19
Time at 75% full	mins	3.33	5.03	6.36
Time at 25% full	mins	21.72	35.32	36.31
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.260	0.355	0.243
Mean surface area for outflow (50% effective depth)	m2	2.23	2.71	2.31
Time for outflow	mins	18.39	30.29	29.95
Soil infiltration rate, f =		0.0001056462	0.0000719350	0.0000585423
or		1.06E-04	7.19E-05	5.85E-05

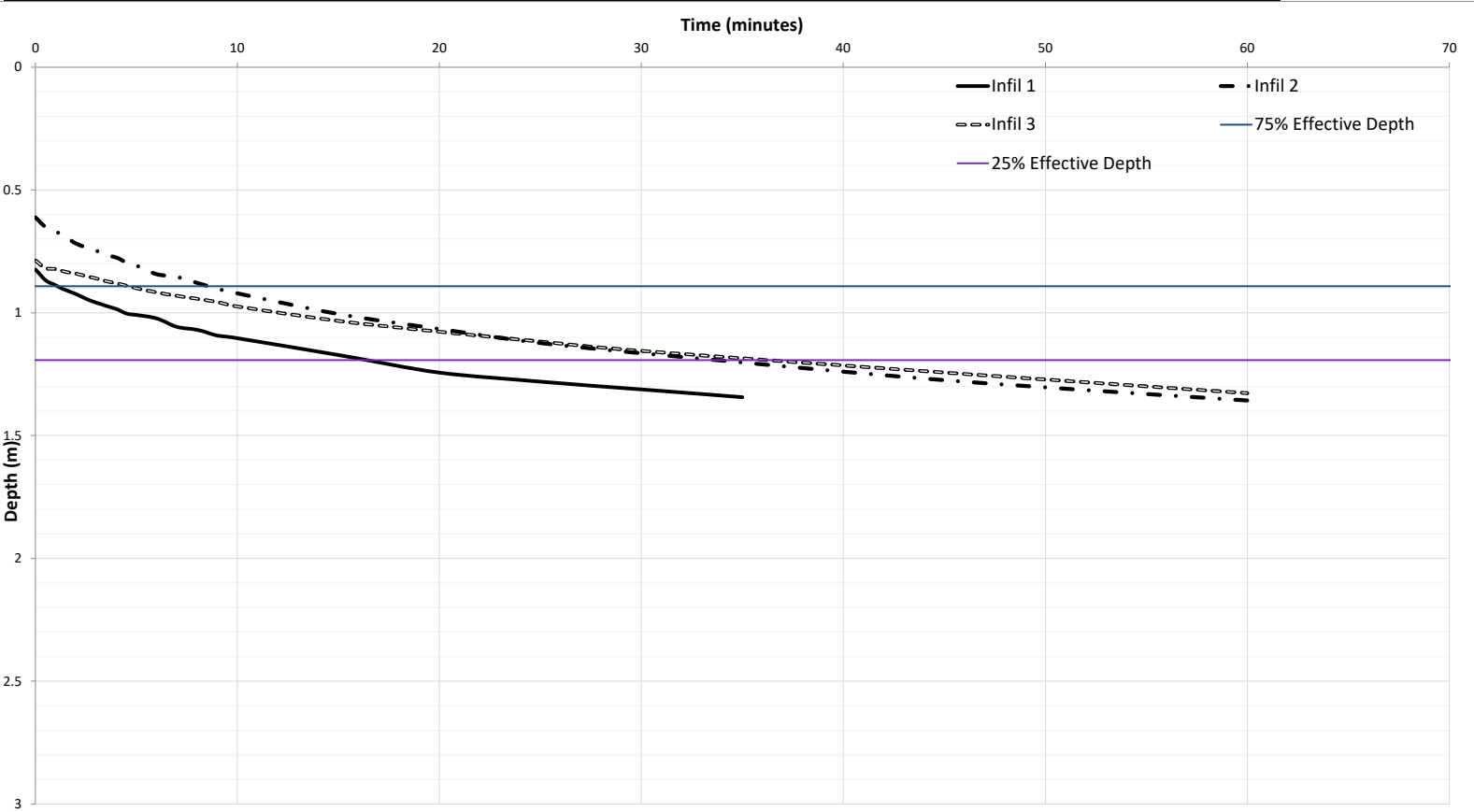
Recommended soil infiltration rate

5.85E-05

m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs
for fill 3 - Soil infiltration rate based on effective drainage only



LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Crop stuble over soft brown TOPSOIL	0.0	Arisings	0.0
Soft light brown CLAY	0.3		
Weak white CHALK	0.5		
	1.4		1.4

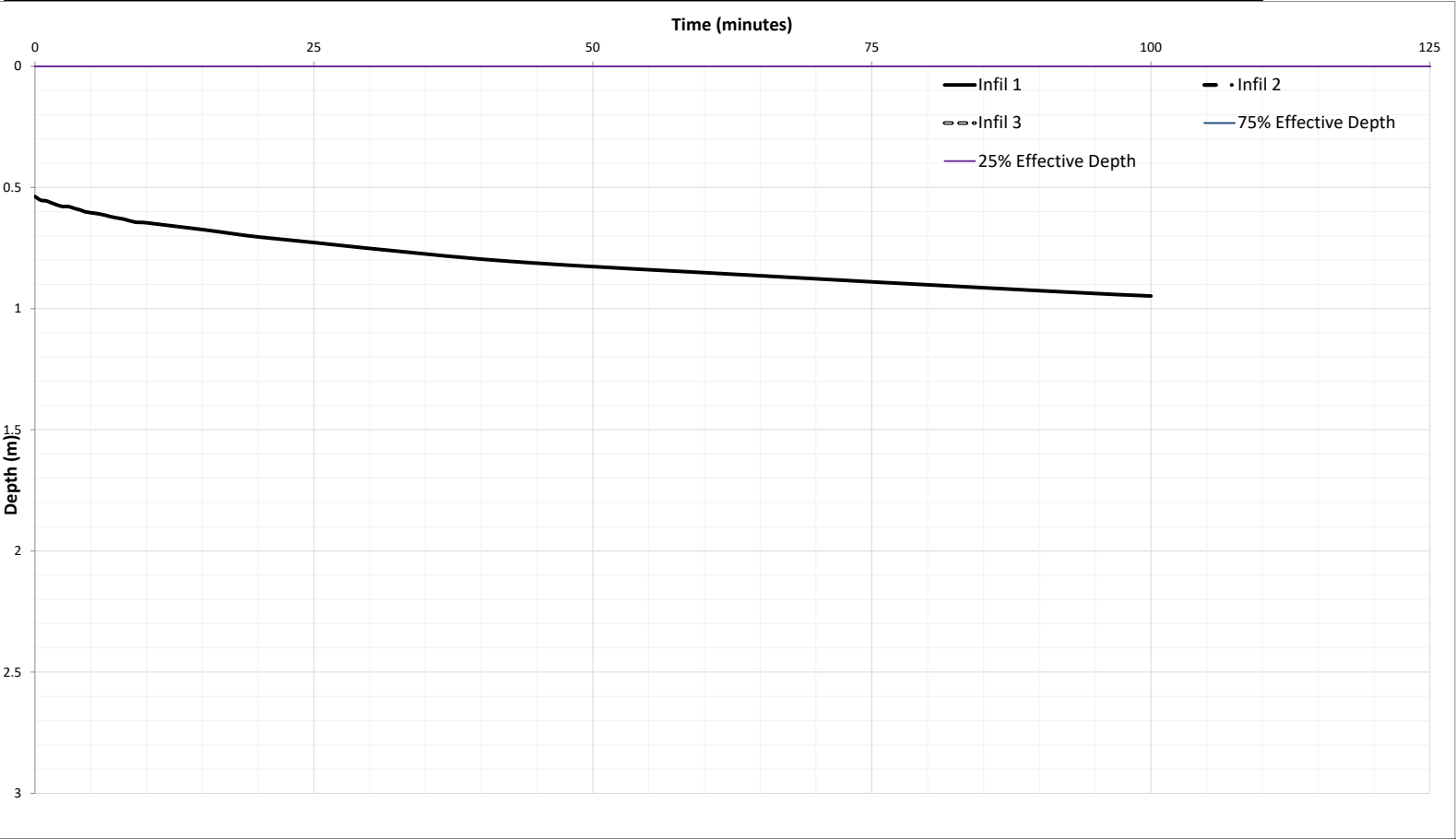
	PROJECT NAME	SOAKAWAY TEST RESULTS	DATE	PROJECT NUMBER
	Baldock		Nov-23	2899.00
	CLIENT		SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)	TP-031	1-3

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	0.95		
Pit depth	m		1.60	
Pit length	m		1.60	
Pit width	m		0.50	
Depth to first reading	m	0.54		
Maximum effective depth	m	0.41		
Depth at 75% full	m	0.64		
Depth at 25% full	m	0.85		
Time at 75% full	mins	8.73		
Time at 25% full	mins	57.52		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.164		
Mean surface area for outflow (50% effective depth)	m2	3.03		
Time for outflow	mins	48.79		
Soil infiltration rate, f =		0.0000185198		
or		1.85E-05		

Recommended soil infiltration rate	
1.85E-05	m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fills 1 and 3 - Soil infiltration rate based on effective drainage only



LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Scrub over TOPSOIL	0.0	Arisings	0.0
Weak to moderately strong white CHALK	0.5		
	1.6		1.6

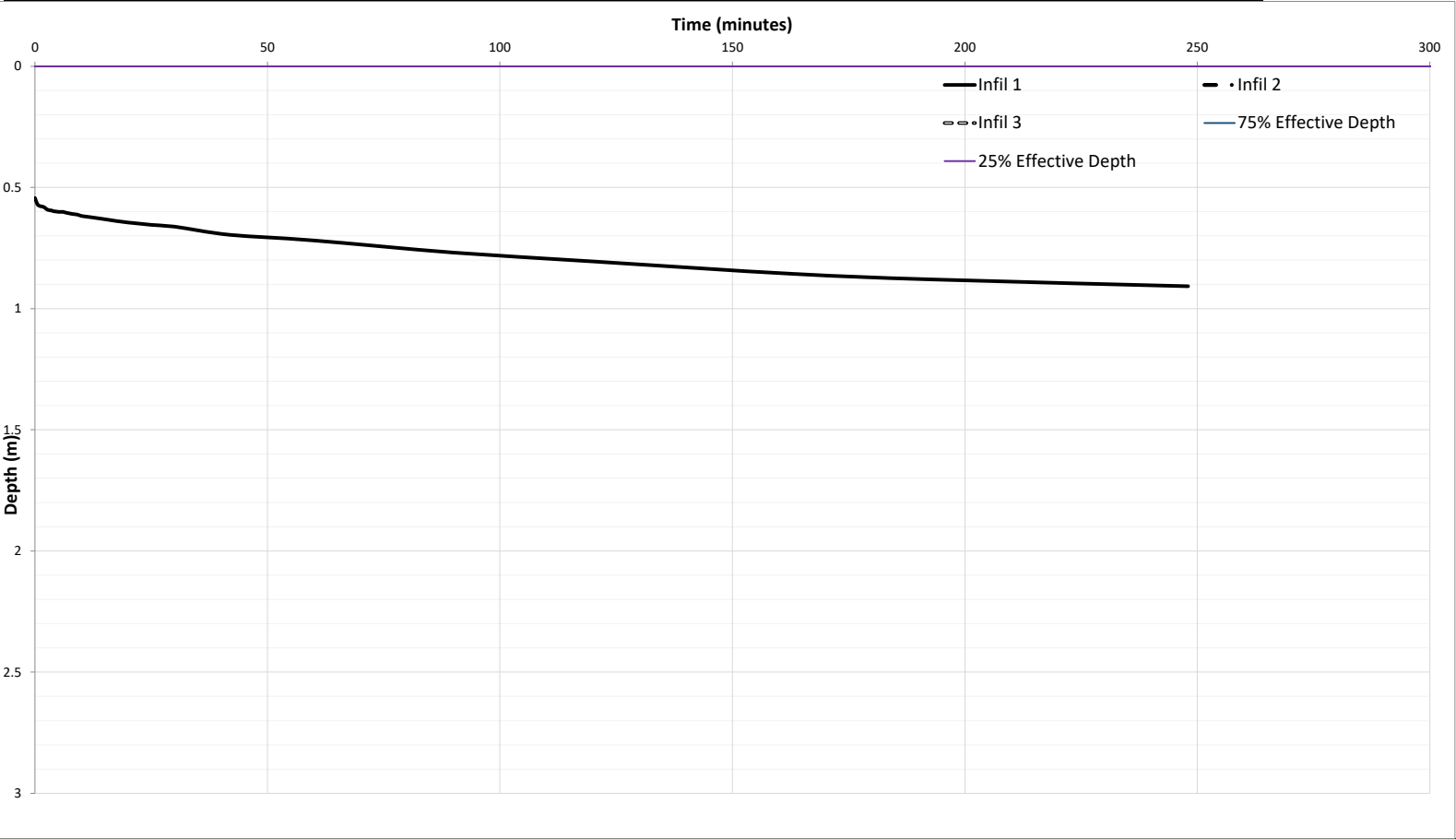
	PROJECT NAME	SOAKAWAY TEST RESULTS	DATE	PROJECT NUMBER
	Baldock		Nov-23	2899.00
	CLIENT		SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)	TP-022	1

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	0.91		
Pit depth	m		1.40	
Pit length	m		1.80	
Pit width	m		0.50	
Depth to first reading	m	0.54		
Maximum effective depth	m	0.36		
Depth at 75% full	m	0.63		
Depth at 25% full	m	0.82		
Time at 75% full	mins	16.15		
Time at 25% full	mins	129.27		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.164		
Mean surface area for outflow (50% effective depth)	m2	2.87		
Time for outflow	mins	113.12		
Soil infiltration rate, f =		0.0000084057		
or		8.41E-06		

Recommended soil infiltration rate	
8.41E-06	m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fills 1 and 3 - Soil infiltration rate based on effective drainage only

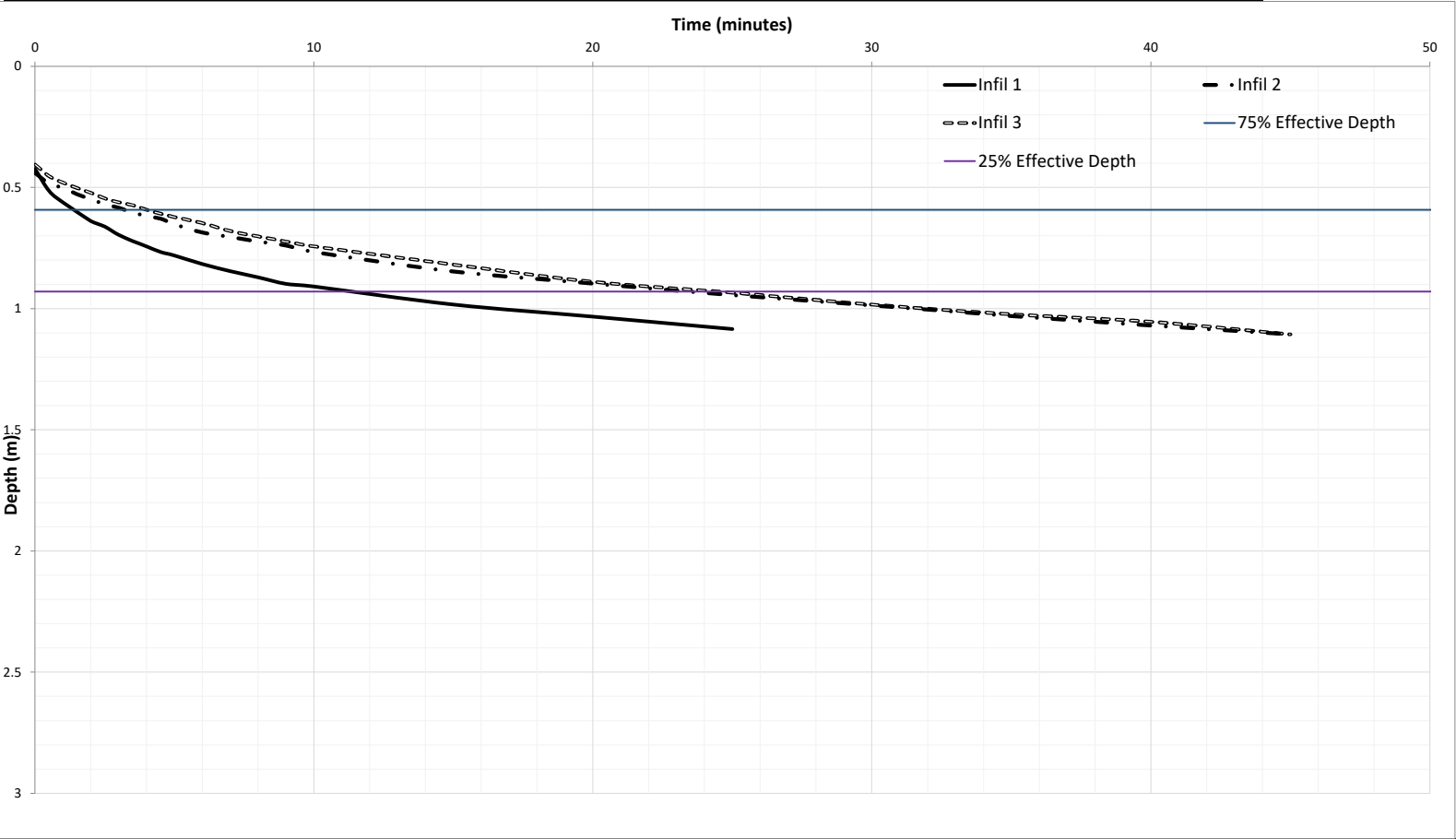


LOG		BACKFILL	
	DEPTH (m)		DEPTH (m)
Crop stuble over TOPSOIL	0.0	Arisings	0.0
Weak brown CHALK	0.4		
	1.4		1.4

	PROJECT NAME	SOAKAWAY TEST RESULTS		DATE	PROJECT NUMBER
	Baldock			Nov-23	2899.00
	CLIENT			SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)		TP-055	1

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.08	1.11	1.11
Pit depth	m	1.30		
Pit length	m	1.80		
Pit width	m	0.50		
Depth to first reading	m	0.42	0.44	0.41
Maximum effective depth	m	0.66	0.67	0.70
Depth at 75% full	m	0.59	0.61	0.58
Depth at 25% full	m	0.92	0.94	0.93
Time at 75% full	mins	2.09	5.09	5.27
Time at 25% full	mins	24.68	42.16	42.14
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.395	0.387	0.403
Mean surface area for outflow (50% effective depth)	m2	2.92	2.88	2.96
Time for outflow	mins	22.59	37.07	36.87
Soil infiltration rate, f =		0.0000998019	0.0000604506	0.0000615384
or		9.98E-05	6.05E-05	6.15E-05

Recommended soil infiltration rate	
9.98E-05	m/s



LOG	BACKFILL
DEPTH (m)	DEPTH (m)
Scrub over TOPSOIL 0.0	Arisings 0.0
Weak to moderately strong white CHALK 0.4	
1.3	1.3

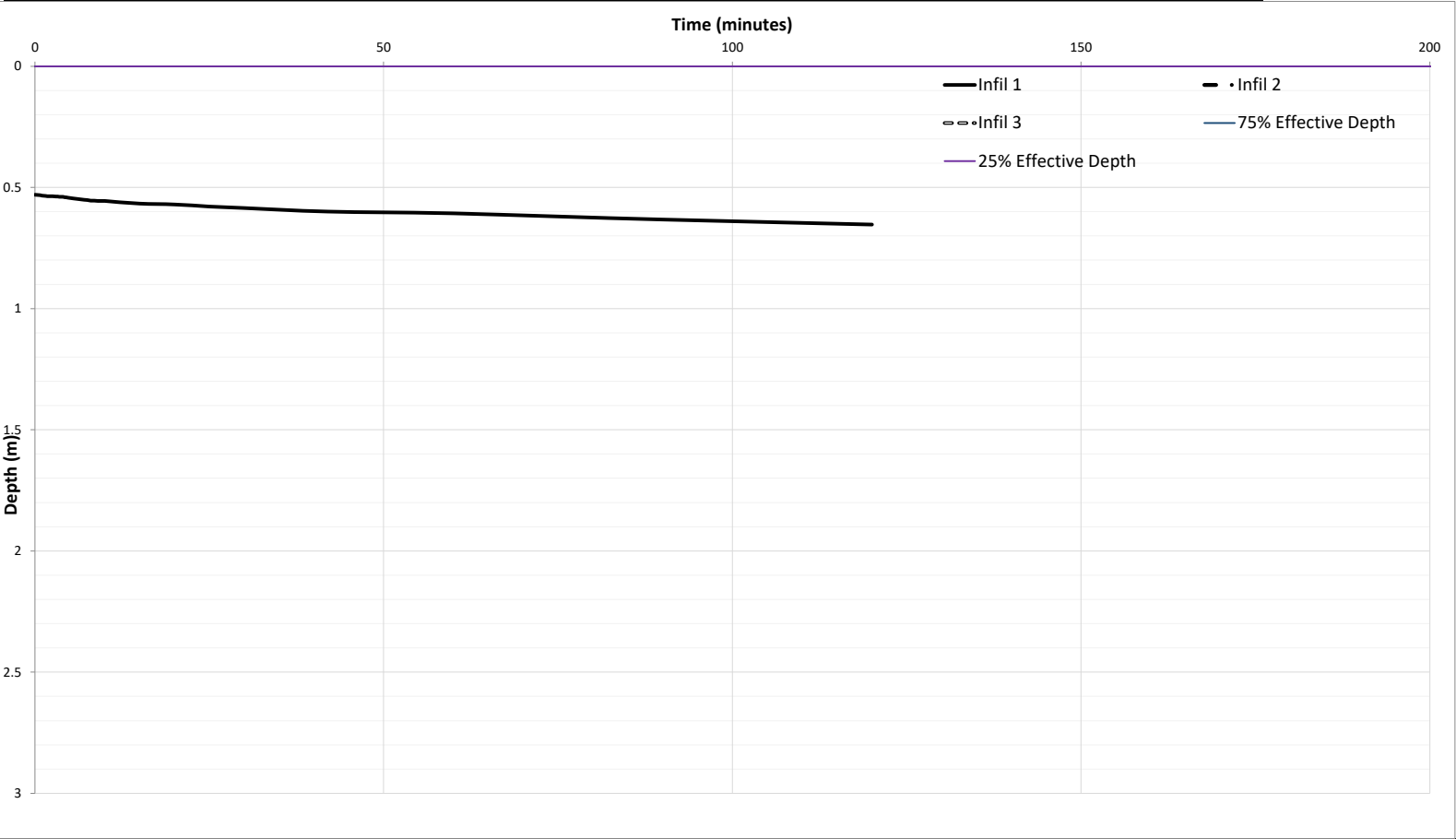
	PROJECT NAME	SOAKAWAY TEST RESULTS	DATE	PROJECT NUMBER
	Baldock		Nov-23	2899.00
	CLIENT		SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)	TP-045	1-3

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	0.65		
Pit depth	m		1.30	
Pit length	m		1.75	
Pit width	m		0.50	
Depth to first reading	m	0.53		
Maximum effective depth	m	0.12		
Depth at 75% full	m	0.56		
Depth at 25% full	m	0.62		
Time at 75% full	mins	12.38		
Time at 25% full	mins	78.30		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.054		
Mean surface area for outflow (50% effective depth)	m2	2.61		
Time for outflow	mins	65.92		
Soil infiltration rate, f =		0.0000052174		
or		5.22E-06		

Recommended soil infiltration rate	
5.22E-06	m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fills 1 and 3 - Soil infiltration rate based on effective drainage only



LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Scrub over TOPSOIL	0.0	Arisings	0.0
Weak to moderately strong white CHALK	0.4		
	1.3		1.3

	PROJECT NAME	SOAKAWAY TEST RESULTS	DATE	PROJECT NUMBER
	Baldock		Nov-23	2899.00
	CLIENT		SOAKAWAY NUMBER	FILL NUMBER
	Urban and Civic	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)	TP-048	1