RECLAMATION VALIDATION REPORT FOR RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

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RECLAMATION VALIDATION REPORT FOR RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

1 INTRODUCTION

FWS Consultants Ltd (FWS) has been instructed by Gleeson Homes Cumbria (the 'Client') to audit the enabling and remediation works for the residential development at Water's Edge, Whitehaven (the 'site'), as shown in Gleeson Homes Cumbria Drawing Site Plan and Engineering Layout 21201-D001, Appendix 1.2.

Previous site investigations covering the wider area of the main production site of the former Albright & Wilson Works were carried out by URS Corporation Ltd in February 2008 (Ref. 1) and Integra Consulting Engineers in May 2013 (Ref. 2).

A Due Diligence report (Ref. 3) was carried out by FWS in April 2019 which identified potential contamination and soil gas risks from the former chemical works. A subsequent Phase I Preliminary Contamination Risk Assessment and the Phase II Ground Investigations that were carried out between 22 and 23 August 2019 and 20 to 23 January 2020 (Ref. 5), along with supplementary contamination and geotechnical (Ref. 7 to 11) investigations carried out between November 2022 and March 2024.

The investigations determined the following:

The principal historic land use of this area has been the Rhodia Chemical Works, which operated between 1938 to 2005.

Ground conditions comprise predominantly cohesive made ground of between 0.3 and 1.5 m thick although extended to depths of up to 3.5 m bgl in the southeast and southwest of the site. Firm to stiff cohesive Glacial Till of low permeability was encountered beneath the made ground and was proven to extend to depths of up to 4.45 m bgl across most of the site. In the east and southeast where either the made ground was locally thicker or shallow bedrock was encountered the glacial till was either thin or absent.

A laterally discontinuous shallow perched groundwater has been proven in the made ground across parts of the site with an inferred hydraulic gradient radially to the south (beyond the site boundary) and to the east and northeast (across the site). The main water table is expected at a depth of between 20 to 31.5 m bgl within the underlying Whitehaven Sandstone Formation bedrock and is classified as a Secondary A Aquifer.

The investigations have proven only localised total contamination in the made ground or natural soils (PAHs, hydrocarbons and sulphates).

Characteristic Situation 2 soil gas conditions have been determined beneath the whole site, with the requirement for vapour proof membranes to plots along the southwestern boundary.

FWS prepared a Reclamation Method Statement (RMS, Ref. 6) detailing the proposed reclamation works, the specification for the mitigation measures to be incorporated into the built development and the validation procedures that needed to be adopted during redevelopment of the site.

Following preparation of the RMS, FWS have undertaken a number of supplementary investigations across the site as summarised below:

A technical note for foundation recommendations to Plots 14 to 16, March 2023 (Ref. 8).
Controlled Waters Risk Assessment, May 2023 (Ref. 9).
Additional Ground Investigation and Hotspot Delineation (Ref. 10).
Additional Ground Investigation and Hotspot Delineation Near Plot 26 (Ref. 11).

As detailed in Ref. 10, as part of the site enabling and earthworks FWS have undertaken hotspot delineation of the localised hydrocarbon hotspot in the southwest of the site associated with a former drainage alignment and following the recent removal of the stockpile in the western part of the site further exploratory investigations to determine if possible buried structures remain within this part of the site and spot sampling and assessment of the chemical quality of the recycled aggregate imported to use as part of the new road construction (Ref. 10, copy included in Appendix 2).

As detailed in Ref. 11, during February 2024 FWS were informed of a potential contamination hotspot associated with a relic drainage route which was exposed during the foundation works of Plot 26 (assumed northern extent of the previous drainage alignment). FWS subsequently undertook hotspot delineation of the localised drainage alignment (Ref. 11, copy included in Appendix 2).

Interim validation reports have also previously been issued for the completed areas relating to Plots 1 to 8 (Ref. 12) and Plots 38 to 40 (Ref. 13).

The main reclamation works were carried out under the management of Gleeson Homes Cumbria. This comprised an initial pre-enabling works phase, then site preparation and set-up, and then the enabling earthworks comprising the Roads and Sewers construction and the preparation of the sub formation to Plots 01 to 08 and 38 to 40.

This Reclamation Validation Report details the reclamation works undertaken by Gleeson Homes and their Contractors in terms of the main earthworks undertaken across the site and the verification testing carried out to provide a validation of the reclamation works across the site, including installation of gas protection measures to the buildings, use of contamination resistant materials to services and installation of clean soil covers to garden areas.

With the exception of the supplementary investigations noted above, FWS has not had any direct site supervisory involvement during the remediation works undertaken onsite, other than the post remediation collation of the information and site records provided by the Client and third parties that have been used for the preparation of this interim validation report.

2 SOURCES OF INFORMATION

Previous investigations of the site include: -

INVESTIGATION	PREPARED BY	DATE	REF.
Due Diligence Report for Land at Water's Edge, Whitehaven.	FWS	2019	3
Coal Mining Risk Assessment for Land at Water's Edge, Whitehaven.	FWS	2019	4
Phase 1 and 2 Geoenvironmental Investigation for Residential Development on Land at Water's Edge, Whitehaven.	FWS	2022	5
Reclamation Method Statement for the Proposed Residential Development on Land at Water's Edge, Whitehaven.	FWS	2022	6
Supplementary Ground Investigations for the Proposed Residential Development on Land at Water's Edge, Whitehaven.	FWS	2022	7

INVESTIGATION	PREPARED BY	DATE	REF.
Technical Note – Ground Conditions and Foundation Recommendations for Plots 14, 15 and 16 Residential Development at Waters Edge, Whitehaven	FWS	2023	8
Controlled Waters Risk Assessment for Residential Development on Land at Water's Edge, Whitehaven	FWS	2023	9
Additional Ground Investigation and Hotspot Delineation for Residential Development on Land at Water's Edge, Whitehaven	FWS	2023	10
Additional Ground Investigation and Hotspot Delineation Near Plot 26 of Residential Development on Land at Water's Edge, Whitehaven.	FWS	2024	11
Interim Reclamation Validation Report for Plots 01 to 08 at Residential Development on Land at Water's Edge, Whitehaven, Cumbria	FWS	2023	12
Interim Reclamation Validation Report for Plots 01 to 08 and 38 to 40 at Residential Development on Land at Water's Edge, Whitehaven, Cumbria	FWS	2024	13

3 BACKGROUND INFORMATION

3.1 Site Location and Description

The 1.4 ha site at National Grid Reference 296680E, 516290N is located off High Road at Water's Edge, Whitehaven, as shown on the Client's Site Plan in Appendix 1.2.

The site is generally flat-lying at an elevation of around 93 m AOD in the north and northeast to around 96 m AOD in the southwest and is surfaced by demolition fill with localised hardstanding in the southeast.

At the time of the initial ground investigation (August 2019 and January 2020), the site contained three stockpiles (Stockpile 3 in the west, Stockpile 2 in central area, and Stockpile 1 in the northeast of the site). Since the previous investigations, it was understood that the original Stockpiles 1 and 2 were disposed offsite, and original Stockpile 3 (renamed by the site management as Stockpile 1 on current drawings) has recently been removed offsite as it has been decided by the Client that it is no longer viable to consider re-use of this material on site as part of the proposed development works.

The site is bordered by residential development to the north and east with derelict open space to the south and west.

3.2 Site History

The principal historic land use of this area has been the Rhodia Chemical Works, which operated between 1938 to 2005 (Ref. 2). The development site is located in the north-western corner of these chemical works, which was primarily used for offices and storage warehouses, with the main chemical process areas located to the south that are still currently derelict land following a sequence of investigations and focused remedial works in 2008 (Ref. 1). The only area for the former chemical works site to have been re-developed to date is the northern part of the former offices / stores area located immediately to the north of the current development boundary.

A summary of the site history is presented below and illustrated in Drawing 8190OD01 Appendix 1.1:

Pre-1850s to 1920s - Agricultural land.
1920s - Railway/sidings constructed in the southwest of the site.

1938 to 1957 - Building constructed in the north of the site as part of the development of the Rhodia chemical works, extending beyond the site boundary to the north, which is indicated to be a steel frame warehouse. 'L' shaped building constructed in the southeast of the site and indicated to be an office, with adjacent ancillary 'works' buildings and possible tanks/storage silos in the southeast and west as shown on Drawing 8190OD01Rev1, Appendix 1.1.
Possible tanks/storage silos in the southeast and west have been removed by 1976 along with a number of the ancillary 'works' buildings in these areas.
Railway/sidings in the southwest of the site have been removed by 1983.
We understand that the main site operations ceased in 2005 and the majority of the former works buildings and infrastructure had been demolished and removed by 2012.

3.3 Summary of Investigation Results

Ground and Groundwater Conditions Summary

The ground investigations have proven locally granular and predominantly cohesive made ground of between 0.3 and 1.5 m thick across the site. Locally in the southeast and southwest made ground extended to depths of up to 3.5 m bgl associated with the former silos and railway embankment.

A buried relict concrete slab at depths between 2.6 and 2.8 m bgl which may be associated with either the former railway or ancillary buildings was encountered in the southwest of the site. Although no other significant below ground relict structures were recorded across the site.

Cohesive Glacial Till was encountered beneath the made ground and was proven to extend to depths of up to 5 m bgl across the central and western parts of the site, whilst in the east and southeast where either the made ground was locally thicker or shallow bedrock was encountered the glacial till was either thin or absent.

The solid geology comprises sandstones, mudstone and siltstones within thin coals belonging to the Whitehaven Sandstone Formation dipping in a north-westerly direction. Weathered sandstone bedrock recovered as clayey gravelly sand was encountered between 0.4 and 1.6 m bgl in the southeast and 1 to 2.4 m bgl in the east of the site, underlain by competent sandstone bedrock at depths of between 0.8 and 2.4 m bgl in the southeast and 1.1 and 2.5 m bgl in the east.

Locally perched and laterally discontinuous groundwater was encountered at approximate elevations of between 92 to 95.5 m AOD in the made ground across parts of the site, and as isolated water strikes within the underlying natural superficial soils at approximate elevations of between 93.15 to 95.56 m AOD.

Contamination

Testing of the granular and cohesive made ground has identified localised contamination, as summarised below:-

None of the localised made ground topsoil or granular stockpiled made ground samples tested contained concentrations of contaminants above the generic assessment criteria.

General granular made ground and cohesive made ground samples across the site (Hazard 1) recorded elevated concentrations of sulphate aqueous extract which pose a risk to the proposed properties.
Cohesive stockpiled made ground (Hazard 2) recorded elevated concentrations of sulphate aqueous extract however, these materials have been removed from site and as such will not pose a risk to the proposed development.
Made ground in the areas of the former tanks / silos (Hazard 3) recorded elevated benzo(b)fluorene, benzo(a)pyrene, dibenzo(a,h)anthracene and sulphate aqueous extract in the west and sulphate aqueous extract in the south of the site, which pose a risk to human health and the proposed properties, respectively.
Made ground in the area of the former railway (Hazard 4) recorded elevated sulphate aqueous extract and chrysotile/amosite asbestos fibres in the southwest/west of the site which pose a risk to human health and the proposed properties (Drawing 8190OD05, Appendix 1.1).
Localised granular made ground (Hazard 1) along the southern boundary recorded elevated concentrations of TPH aromatic 12-16, 16-21 and 21-35 hydrocarbons and sulphate aqueous extract which pose a risk to human health and the proposed properties, respectively.

Characteristic Situation 2 gas conditions have been determined across the site and as such gas protection measures will be required for the proposed development. A hydrocarbon resistant membrane is also required to plots along the south/southwestern boundary (Drawing 8190OD04, Appendix 1.1). No radon protection measures are required.

4 RECLAMATION AND MATERIAL MANAGEMENT PROPOSALS

4.1 Reclamation Works

As detailed in the RMS (Ref. 6), the enabling works were to meet the following reclamation requirements:-

Earthworks

Excavation of cohesive fill arisings within Stockpiles 1 and 2 and although it was originally intended to be retained onsite part of Stockpile 3 for reuse, due to site constraints it is understood that these stockpiled materials will also be removed for offsite disposal.

Site preparation by excavation of surface vegetation and made ground to a depth of 0.2 m and existing hardstand areas to a depth of 0.4 m.

Site turnover and regrade of site levels including a cut of 1,953 m^3 and proposed fill of 3,751 m^3, with an overall net shortfall of material of ~264 m^3 to achieve the proposed formation level.

This was to involve the sequential excavation and reinstatement:-

- Removal of relic structures.
- Excavation of localised contaminated granular made ground (contaminated Class 1 General Fill) and localised contaminated cohesive made ground (contaminated Class 2 General Fill) and of natural clay (Class 2 General Fill or Class 4 Landscape Fill) as part of the site turnover and cut to the proposed sub-formation levels.
- Reinstatement of Site Won Contaminated Class 1 and 2 General Fill as an engineered fill to achieve the proposed subformation levels beneath carriageways, plots and garden areas.

- Excavation of localised contaminated granular made ground (contaminated Class 1 General Fill) and localised contaminated cohesive made ground (contaminated Class 2 General Fill) to cut the private drainage and foundation arisings. From the earthworks materials balance and proposed phasing, it is anticipated that these arisings will require be reinstated beneath buildings and structures (as part of the construction make-up) and any surplus arisings will then be disposed offsite.
- Placement of 0.6 m thick anti-dig layer comprising compacted engineered fill and/or a geotextile membrane in the southwest of the site (Drawing 8190OD05, Appendix 1.1).

Reuse of clean Site Won natural clay (Class 4 Landscape Fill; Volume TBC) and importation of clean Class 4 Landscape Fill (Volume TBC) for placement as a clean cover layer in future gardens and landscaped areas.

Reuse of Imported Won Class 5 Topsoil (Volume TBC) for placement as a clean cover layer in future gardens and landscaped areas.

Buildings and Infrastructure

Incorporate a clean soil cover in garden and landscaped areas where underlain by contaminated made ground. As a minimum the clean cover soil layer in garden areas should comprise 0.45 m thick subsoil and 0.15 m thick topsoil and in landscaped areas should comprise 0.3 m of subsoil and 0.15 m of topsoil.

An anti-dig layer comprising compacted engineered fill and/or a geotextile membrane should be installed in all domestic gardens and soft landscaped in the southwest of the site to mitigate the risk from localised asbestos. A capping layer comprised of at least 0.6 m thick inert material should be installed above the anti-dig layer.

Implement gas protection measures in the buildings to mitigate soil gas conditions designed for Characteristic Situation 2. Localised hydrocarbon contamination was recorded in the south/southwest of the site and as such, hydrocarbon resistant membranes should be installed within proposed buildings in this area (Drawing 8190OD04, Appendix 1.1).

Subject to the approval from the Water Authority, the water supply pipework will either need to be hydrocarbon resistant, or alternatively the service corridor backfilled with inert materials.

In-ground concrete should be designed for Sulphate Class DS-2 ACEC Class AC-2 for future structures in contact with the made ground.

5 PARTIES TO THE REMEDIATION WORKS

The following are details of interested parties within the development:-

5.1 Parties to the Contract

Employer
Gleeson Homes Cumbria
Rural Enterprise Centre
Redhills
Penrith
Cumbria
CA11 0DT
Contact Tel: 01768 807853

Consulting Engineer
RWO Northeast
19-20 Brenkley Way
Newcastle Upon Tyne
NE13 6DS
Contact Tel: 0191 258 5632

Environmental Engineer
FWS Consultants Ltd
City West Business Park
St John's Road
Meadowfield Industrial Estate
Durham
DH7 8ER
Contact Tel: 01388 420633

Main Contractor
Gleeson Homes Cumbria
Rural Enterprise Centre
Redhills
Penrith
Cumbria
CA11 0DT
Contact Tel: 01768 807853

5.2 Parties to be Consulted

Council
Contaminated Land Officer
Copeland Borough Council
The Market Hall
Market Place
Whitehaven
CA28 7JG
Tel 01946 598300

6 ENABLING WORKS

6.1 General

The enabling works comprised:-

Site preparation and clearance;
Disconnection of services, and;
Inspection of Formation Level;

6.1.1 Site Preparation and Clearance

A secure site compound was established prior to commencement of the works. Site clearance included the removal of existing structures, surface detritus including any fly tipping and surface

vegetation to be disposed off-site as non-hazardous waste. In addition, we understand that Stockpiles 1 and 2 were also removed (pre-works) and that Stockpile 3 has subsequently been removed (around December 2023) as part of the site works.

The Client retains all original copies of the waste transfer notes for these materials removed.

6.1.2 Disconnection of Services

As part of their site inspections, the Client and their Contractors have not noted any existing or redundant buried services or drainage that required disconnecting and removal, with the exception of the following.

Photographs provided by the Client are included in Appendix 2.

Hydrocarbon Hotspot (Southwestern Area)

As detailed in Ref. 10 and included in Appendix 2, FWS attended site during December 2023 to delineate and assess the extent of the previously identified hydrocarbon hotspot following the removal of the stockpile in this area.

This comprised excavation of 2no trenches to a depth of up to 1.8 m to locate and delineate the full extent of the hydrocarbon hotspot in the southwest of the site. As part of these investigations 3no made ground samples (from excavated and stockpiled material) and 2no samples of remaining insitu cohesive made ground were tested for TPH/CWG and BTEX/MTBE suite. In addition, 3no verification samples of the remaining natural cohesive soils (insitu/base of excavation) were also tested for TPH/CWG and BTEX/MTBE suite.

In the area of the hydrocarbon hotspot, cohesive made ground was proven to depths of between 1 to 1.50 m bgl comprising dark grey sandy gravelly clay containing gravel of sandstone, mudstone, slag, ceramic and clay pipe with frequent pockets of black stained granular material containing evidence of hydrocarbon contamination. The underlying superficial deposits consisted of firm to stiff brown slightly sandy gravelly clay with gravel of sandstone mudstone and coal to depths of at least 1.80 m bgl. Groundwater was not encountered during this ground investigation with the exception of wet granular pockets in the area of the hydrocarbon hotspot.

Visual evidence of hydrocarbon contamination (black stain and slight oily sheen) was noted in the granular pockets in the made ground, however, no significant olfactory contamination was noted (PID values of <3.3 ppm). No significant concentrations of contaminants were reported with the made ground material within the hydrocarbon hotspot area, with the exception of elevated concentrations of TPH (aromatic C12-C16) recorded at 1,200 mg/kg (Assessment Value for aromatic C12-C16: 140 mg/kg), which pose a risk of harm to human health. It should be noted that the level of contamination appears to have further reduced since the original investigations.

As part of the delineation investigations, all visually contaminated materials have been removed from the former drain alignment in this area. Following removal of the contaminated material, the underlying insitu natural clay was tested, and no significant concentrations of contaminants was identified, indicating that the hydrocarbon hotspot did not spread into the wider environment and was successfully removed.

Hydrocarbon Hotspot (Plot 26 Foundation Excavations)

As detailed in Ref. 11 and included in Appendix 2, FWS attended site during February 2024 following being informed of a potential contamination hotspot associated with a relic drainage route which was exposed during the foundation works of Plot 26 (assumed northern extent of the previous drainage alignment associated with the southern hotspot detailed above). FWS subsequently undertook hotspot delineation of the localised drainage alignment comprising excavation of 2no trenches to a depth of up to 1.4 m to locate and delineate the full extent of the hydrocarbon hotspot. As part of these investigations 3no made ground samples (from excavated material) and 1no sample of insitu natural cohesive soils (insitu/base of excavation) were tested for TPH/CWG and BTEX/MTBE suite.

In the area of the drainage alignment, mixed granular and cohesive made ground to depths of between 0.4 to up to 1.10 m bgl were proven, including a strong solvent odour was noted throughout the made ground material. The excavations identified a possible former pipe trench at the interface between the made ground material and natural soils where contaminated material was present, however, a short section of an approximately 10cm wide clay pipe was only locally found to be present at around 0.40 m bgl at the interface between the made ground and natural soils.

Visual evidence of contamination (black stain and slight oily sheen) was noted within granular material in the made ground, with an associated distinct solvent odour. The extent of the visually contaminated material was around 0.20 m either side of the clay pipe in P26B at a depth of around 0.40 m bgl. No significant evidence of contamination remained in P26B following removal of the contaminated material. However, in the area of P26A, where visual and olfactory evidence of contamination appeared to extend up to 1.0 m from the alignment of the pipe, the full extent of the contamination could not be identified at the time of investigation.

As part of the delineation investigations, all visually contaminated materials encountered were removed from the former drain alignment. Following removal of the contaminated material, the underlying insitu natural clay showed no significant visual or olfactory evidence of contamination indicating that the hydrocarbon hotspot had not spread into the wider environment.

6.1.3 Inspection of Formation Level

With the exception of the two areas noted above in Section 6.1.2, on completion of the site clearance, the Client and their Contractors have not noted any other additional significant unrecorded visual and olfactory evidence of contamination as part of their site inspections.

Site inspection records and photographs provided by the Client are included in Appendix 2.

7 RECLAMATION

7.1 Treatment of Relict Structures

The Client and their Contractors have not noted any significant surface or below ground relict structures as part of their site inspections and subsequent ground across the site.

Photographs provided by the Client are included in Appendix 2.

As detailed in Ref. 10 and included in Appendix 2, FWS attended site during December 2023 and undertook additional excavation of trial pits in the west (beneath the former stockpile that had been recently removed at that time) to provide comment on possible buried structures remaining in this area. This comprised excavation of 3no trial pits (TPA to TPC) to depths of up to 1.80 m bgl to enable the made ground to be examined and identify any potential buried structures. No evidence of any remaining relict buried structures was recorded.

7.2 Excavation and Reinstatement of Made Ground

The cut and fill earthworks are complete across the site, including:

Cut to the access road from existing levels of around 94.6 m AOD in the east and around 94 m AOD in the west by around 0.5 m to allow a future construction buildup of 0.94 m. Photographs of the road cut and initial construction reinstatement observed by FWS are included in Appendix 2.

Fill to Plots 01 to 08 from existing levels of between 93.7 m AOD (Plot 1) and 94.5 m AOD (Plot 8) by between 0.5 to 1.5 m to the underside of the plot build-up and to achieve the proposed finished development levels in garden areas. Photographs provided by the Client are included in Appendix 2.

Fill to Plots 38 to 40 from existing levels of between 93 m AOD (Plot 38) and 93.6 m AOD (Plot 40) by between 0.5 to 1.5 m to the underside of the plot build-up and to achieve the proposed finished development levels in garden areas. Photographs provided by the Client are included in Appendix 2.

Generally, fill to remaining Plots 9 to 37 from existing levels of between 93.30 m AOD (Plot 32) and 95.97 m AOD (Plot 16) by between 0.5 to 1.5 m to the underside of the plot build-up and to achieve the proposed finished development levels in garden areas. Locally, small areas of cut (up to 0.5 m) have been undertaken to Plots 27 to 29.

7.3 Treatment of Unidentified Contamination Hotspots

With the exception of the two areas noted above in Section 6.1.2, the Client and their Contractors confirm that no other unidentified visual or olfactory evidence of significant contamination was encountered during the works across the site. All other materials encountered during the works were as anticipated, based on the ground conditions proven within the previous ground investigations.

7.4 Importation of Materials

As part of the earthworks, we understand that only coarse granular material (recycled aggregate) has been imported for the road subbase construction and natural quarried stone for backfill to services and drainage routes.

In accordance with the RMS, it is not acceptable to import materials from sources having known former contaminative use. Therefore, the following records are required to be provided for the imported recycled aggregate materials:

Review of available data; desk study and ground investigation information available for the source site shall be provided to the Engineer for review.
Source material inspection; to confirm that there is no historical or visual evidence of hazardous contamination or materials.
Source material testing; a minimum of three samples per sourced of imported materials shall be tested to demonstrate compliance with the acceptance criteria detailed in the RMS.

These records are still to be provided by the Client and their Contractors, however, in the absence of sufficient Contractor records demonstrating the chemical and geotechnical suitability of these materials, additional chemical testing was carried out on one sample of the recycled aggregate. As detailed in Ref. 10 and included in Appendix 2, FWS attended site during December 2023 and where accessible along the new road alignment one trial pit was excavated and a sample of the imported coarse granular material (recycled aggregate) was collected for testing. Four distinct layers were noted (first three related to the road build up / construction) with the final layer comprising compacted mixed brown granular/cohesive fill with gravel of sandstone, cement, brick, plastic and slag (imported coarse granular materials placed as the sub-formation to the road construction).

No significant evidence of visual and olfactory contamination was noted, with the exception of a light organic odour throughout the made ground material in TPA. However, slightly elevated concentrations of PAHs were present within the coarse granular materials, with benzo(b)fluoranthene at 4.2 mg/kg, benzo(a)pyrene at 6.5 mg/kg and dibenzo(a,h)anthracene at 0.9 mg/kg (Assessment Value: 2.6, 2.2 and 0.24 mg/kg respectively) which may pose a risk of harm to human health. No other elevated concentrations of contaminants were present. As such, the recycled aggregate would be classified as contaminated fill materials that would only be suitable for re-use beneath clean soils or building and hardstanding. If any of this material has been used elsewhere on site other than under cover soils, hardstanding or buildings, it should either be replaced with suitable material or a suitable clean cover system should be adopted in accordance with the Reclamation Method Statement.

Original delivery tickets for the natural quarried stone used in service and drainage routes are held by the Client.

8 BUILT DEVELOPMENT

8.1 Provision of Clean Cover

Localised elevated concentrations of hydrocarbons and isolated asbestos in the southwestern area were recorded in the made ground that would present a risk of harm to end-users in future garden and landscaped areas. In addition, the made ground materials present across the rest of the site would be unsuitable as a rooting medium for plant growth.

Therefore, as part of the works the following clean covers have been installed across the site:

General Plots / Gardens = 600 mm (Total Clean Cover)
- 250 mm topsoil/growing medium.
- 350 mm sub-soil.

Southwestern Area Plots / Gardens = 1000 mm (Total Clean Cover)

- 250 mm topsoil/growing medium.
- 150 mm sub-soil.
- 600 mm of inert compacted material or geotextile membrane that will act as a break layer for any potential asbestos contamination.

Landscape / POS areas = 450 mm (Total Clean Cover)

- 250 mm topsoil/growing medium.
- 200 mm sub-soil.
- (southwestern area only; additional 600 mm of inert compacted material or geotextile membrane that will act as a break layer for any potential asbestos contamination).

Where localised asbestos contaminated made ground is to remain in the southwestern part of the site, the designed clean cover soil layer to the front gardens of Plots 27 to 29 and the adjacent landscaped areas were to include an inert 'insulation' layer (Drawing 8190OD05, Appendix 1.1).

This will prevent both direct contact/reduce potential exposure with contamination within made ground and provide a suitable rooting medium.

All imported materials utilised as part of the gardens / landscaping were tested (copies in Appendix 3) by GEO Environmental Engineering Ltd (GEE) at the source site (Ashfield Road; Gleeson Homes development site) prior to export and were deemed to be suitable by GEE.

Validation of the thickness and chemical quality of emplaced topsoil and subsoil has been carried out upon completion of each plot by GEE, for which the completed reports are presented in Appendix 3. These plots are reported to have recorded a sufficient depth, and chemical quality of emplaced materials.

8.2 Gas Protection Measures

The gas monitoring identified Characteristic Situation 2 conditions and, therefore, buildings across this site required gas preventive measures in accordance with BS8485 (Ref. 14) for the residential buildings and fitted following the principles of CIRIA C735 (Ref. 15). For a Type A private residential building (high risk) the designed gas protection system should have a minimum 3.5 points in compliance with BS8485:2015 (Ref. 14), which can be achieved from a range of measures as including a structural barrier (floor and substructure design), ventilated sub floor void and propriety gas resistant and vapour proof membrane. In addition, localised hydrocarbon contamination was recorded in the south/southwest of the site and as such, hydrocarbon resistant membranes were recommended to be installed within proposed buildings in this area.

A Gas Verification Strategy was prepared by GEE (December 2022, revised October 2023) that sets out the proposed protection measures to be incorporated and the verification requirements on completion of the works. A copy of this is included in Appendix 4.

Validation of the as-built subfloor / floor construction and installed membrane has been undertaken by GEE, for which the completed reports are included in Appendix 4. These plots have been reported to be installed with the appropriate gas protection measures complying with Characteristic Situation 2 conditions.

8.3 Materials for In-Ground Concrete and Services

In-ground Concrete

On the basis of the previous ground investigations, it was recommended that all in-ground concrete in contact with made ground onsite should be designed to a worst-case Design Sulphate Class DS-2 ACEC Class AC2 in accordance with BRE Special Digest 1:2005, Concrete in Aggressive Ground (Ref. 16).

A copy of the concrete delivery tickets have not been provided, but a copy of these records is understood to have been retained by the Client.

Services

Where in-ground potable water supply pipes shall be in contact with made ground materials and the localised hydrocarbon contamination in the southwest of the site, these were to be designed to be chemically resistant, or placed within a clean corridor, as specified by the respective statutory undertaker, to accommodate for the contaminants identified onsite.

We understand that hydrocarbon resistant / barrier water supply pipe work has been installed across the site as required by the Statutory Water Authority and these records are retained by the Client (Water Authority approval and data sheets for the materials utilised).

9 WASTE DISPOSAL

9.1 Waste Characterisation and Acceptance Criteria

All wastes generated onsite were characterised by the Client and their Contractors in accordance with The Landfill Directive, the List of Wastes (England) Regulations 2005, the Hazardous Waste (England and Wales) Regulations 2005 and Technical Guidance WM3 Guidance on the classification and assessment of waste (1st edition 2015), including any subsequent amendments.

9.2 Liaison with Waste Disposal Operators

The following waste disposal operators were used during the construction works:-

TYPES OF WASTES GENERATED	DATE REMOVED FROM SITE	WASTE CODE	WASTE DISPOSAL OPERATOR
Stockpile 1 and 2 Quantity: approx. 3,675 m^3 (6611.5 t) (Disposal Tickets in Appendix 5)	August to October 2022	170504	Overby Quarry
Stockpile 3 Quantity: 4,233 m^3 (Noted as Stockpile 7 in Appendix 1.2)	October to December 2023	Records held by Gleeson Homes Cumbria	
Surplus mixed materials from cut and fill, foundations and drainage works Quantity: 2,697 m^3 (Appendix 1.2)	Throughout the works	Records held by Gleeson Homes Cumbria	

TYPES OF WASTES GENERATED	DATE REMOVED FROM SITE	WASTE CODE	WASTE DISPOSAL OPERATOR
Surplus mixed materials from cut and fill, foundations and drainage works and Hydrocarbon Hotspot (southwestern and Plot 26 area) Quantity: 700 m^3	Around January 2024 to April 2024	170504	FCC Recycling UK Ltd Lillyhall Landfill Dixon House Workington CA14 4JH Permit Ref. EPR/JP3290VP

9.3 Chain of Custody

Originals of waste transfer notes, the waste carrier licences and details of the receiving licenced waste facilities are maintained by the Client, with copies (where provided), included in Appendix 5.

10 QUALITY ASSURANCE AND CONTROL

10.1 Environmental Engineer Role in Verification

This report includes an audit of information collated during the site reclamation and earthworks operations and included the following:-

Inspect and validate all occurrences of unidentified contamination reported by the Contractor and undertake liaison with the Regulators, as necessary.

Audit that the sampling and laboratory analyses of materials handled during the works are undertaken in compliance with the Method Statement.

Audit compliance testing records of the imported clean materials and verification of the thickness of clean cover soils placed within garden and landscaped areas.

Audit compliance testing records for the construction of the gas protection measures to ensure they are undertaken in compliance with the Method Statement and verified by a suitable independent contractor.

Collate documentary records to be provided by the Client and their Contractors on the remediation procedures undertaken and prepare the Validation Report to be submitted on completion of the remediation works.

11 VALIDATION

11.1 Earthworks – Site Won Materials

Relict Structures

The Client and their Contractors have not noted any significant surface or below ground relict structures as part of their site inspections and subsequent ground works across the site. No evidence of any remaining relict buried structures was recorded across the southwestern part of the site following the removal of the remaining stockpile in this area.

Excavation and Reinstatement of Made Ground

The cut and fill earthworks are complete across the site and included:

Photographs of the road cut and initial construction reinstatement observed by FWS are included in Appendix 2.

Photographs of the fill to Plots 1 to 8 and 38 to 40 provided by the Client are included in Appendix 2.

Copies of photographs of the fill to the remaining Plots 9 to 37 are retained by the Client.

waste transfer notes, the waste carrier licences and details of the receiving licenced waste facilities are maintained by the Client.

Unidentified Contamination Hotspots

With the exception of the two areas noted above in Section 6.1.2 and summarised below, the Client and their Contractors confirm that no other unidentified visual or olfactory evidence of significant contamination was encountered during the works across the site. All other materials encountered during the works were as anticipated, based on the ground conditions proven within the previous ground investigations.

Hydrocarbon Hotspot (Southwestern Area)

As detailed in Ref. 10 and included in Appendix 2, FWS attended site during December 2023 to delineate and assess the extent of the previously identified hydrocarbon hotspot following the removal of the stockpile in this area. As part of the delineation investigations, all visually contaminated materials have been removed from the former drain alignment in this area. Following removal of the contaminated material, the underlying insitu natural clay was tested, and no significant concentrations of contaminants was identified, indicating that the hydrocarbon hotspot did not spread into the wider environment and was successfully removed.

Hydrocarbon Hotspot (Plot 26 Foundation Excavations)

As detailed in Ref. 11 and included in Appendix 2, FWS attended site during February 2024 following being informed of a potential contamination hotspot associated with a relic drainage route which was exposed during the foundation works of Plot 26 (assumed northern extent of the previous drainage alignment associated with the southern hotspot detailed above). As part of the delineation investigations, all visually contaminated materials encountered were removed from the former drain alignment. Following removal of the contaminated material, the underlying insitu natural clay showed no significant visual or olfactory evidence of contamination indicating that the hydrocarbon hotspot had not spread into the wider environment.

11.2 Imported Materials

As part of the earthworks, we understand that only coarse granular material (recycled aggregate) has been imported for the road subbase construction and natural quarried stone for backfill to services and drainage routes.

The records demonstrating the chemical and geotechnical suitability of these materials are still to be provided by the Client and their Contractors, however, in the absence of sufficient Contractor records limited additional chemical testing was carried out on one sample of the recycled aggregate. Although no evidence of visual and olfactory contamination was noted, the imported coarse granular materials (recycled aggregate) contained elevated PAH concentrations, which may pose a risk of harm to human health. As such, the recycled aggregate would be classified as contaminated fill materials that would only be suitable for re-use beneath clean soils or building and hardstanding. If any of this material has been used elsewhere on site other than

under cover soils, hardstanding or buildings, it should either be replaced with suitable material or a suitable clean cover system should be adopted in accordance with the Reclamation Method Statement.

11.3 Offsite Disposal

Stockpile 1 & 2

Materials from Stockpiles 1 and 2 were removed offsite as part of the site enabling works. Original waste transfer notes, the waste carrier licences and details of the receiving licenced waste facilities are maintained by the Client and copies are included in Appendix 5.

Stockpile 3

Materials from Stockpile 3 were removed offsite as part of the ongoing site enabling and phased construction works. Copies of waste transfer notes, the waste carrier licences and details of the receiving licenced waste facilities are maintained by the Client.

Surplus Mixed Materials

A range of mixed surplus materials generated from the site regrading (cut and fill), and plot foundation and drainage works have been periodically removed offsite as part of the development of the site. Copies of waste transfer notes, the waste carrier licences and details of the receiving licenced waste facilities are maintained by the Client.

Surplus Mixed Materials and Hydrocarbon Hotspot (Southwestern and Plot 26 Area)

As part of the delineation investigations, all visually contaminated materials have been removed from the former drain alignment in the southwestern / Plot 26 part of the site. Following removal of the contaminated material, the underlying insitu natural clay showed no significant visual or olfactory evidence of contamination indicating that the hydrocarbon hotspot had not spread into the wider environment. Original waste transfer notes, the waste carrier licences and details of the receiving licenced waste facilities are maintained by the Client and copies are included in Appendix 5.

11.4 Built Development

Clean Cover Soils

All plots are reported to have recorded a sufficient depth, and chemical quality of emplaced materials, including additional inert layer / warning membrane to the front gardens of Plots 27 to 29.

Gas Protection Measures

All plots have been reported to be installed with the appropriate gas protection measures complying with Characteristic Situation 2 conditions, including additional vapour barrier to Plots 20, 28 and 29.

In-Ground Materials

Records of in-ground concrete specification utilised and confirmation of Water Authority approval and data sheets for the hydrocarbon resistant / barrier pipework materials utilised are retained by the Client.

12 CONCLUSIONS OF VALIDATION REPORT

From the records/documents provided by the Client and their Contractors detailing the works undertaken as part of the site enabling and subsequent main reclamation works phases, the works have been undertaken in general accordance with the objectives of the FWS Reclamation Method Statement (Ref. 6).



A ROBINSON
PRINCIPAL CONSULTANT



M LAKEY
DIRECTOR

13 REFERENCES

1 URS Corporation Ltd, February 2008. Former Albright & Wilson Works, Whitehaven, Cumbria. Ref. MARP0002.

2 Integra Consulting Engineers, May 2013. Geotechnical Ground investigation at Land at Former Rhodia Offices, High Road, Whitehaven, Cumbria for Story Homes, Ref. 2599.

3 FWS Consultants Ltd, April 2019. Due Diligence Report for Land at Water's Edge, Whitehaven. Report Ref. 8190OR01.

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5 FWS Consultants Ltd, March 2022. Phase 1 and 2 Geoenvironmental Investigation for Residential Development on Land at Water's Edge, Whitehaven. Report Ref. 8190OR03Rev02.

6 FWS Consultants Ltd, October 2022. Reclamation Method Statement for the Proposed Residential Development on Land at Water's Edge, Whitehaven. Report Ref. 8190OR04Rev02

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10 FWS Consultants Ltd, December 2023. Additional Ground Investigation and Hotspot Delineation for Residential Development on Land at Water's Edge, Whitehaven. Report Ref. 8190OR15.

11 FWS Consultants Ltd, March 2024. Additional Ground Investigation and Hotspot Delineation Near Plot 26 of Residential Development on Land at Water's Edge, Whitehaven. Report Ref. 8190OR18.

12 FWS Consultants Ltd, October 2023. Interim Reclamation Validation Report for Plots 01 to 08 at Residential Development on Land at Water's Edge, Whitehaven, Cumbria. Report Ref. 8190OR14.

13 FWS Consultants Ltd, January 2024. Interim Reclamation Validation Report for Plots 01 to 08 and 38 to 40 at Residential Development on Land at Water's Edge, Whitehaven, Cumbria. Report Ref. 8190OR16.

14 British Standards Institution, 2015. BS 8485:2015+A1:2019. Code of practice for the design of protection measures for methane and carbon dioxide ground gases for new buildings.

15 CIRIA C735, 2014. Good practice on the testing and verification of protection systems for buildings against hazardous ground gases.

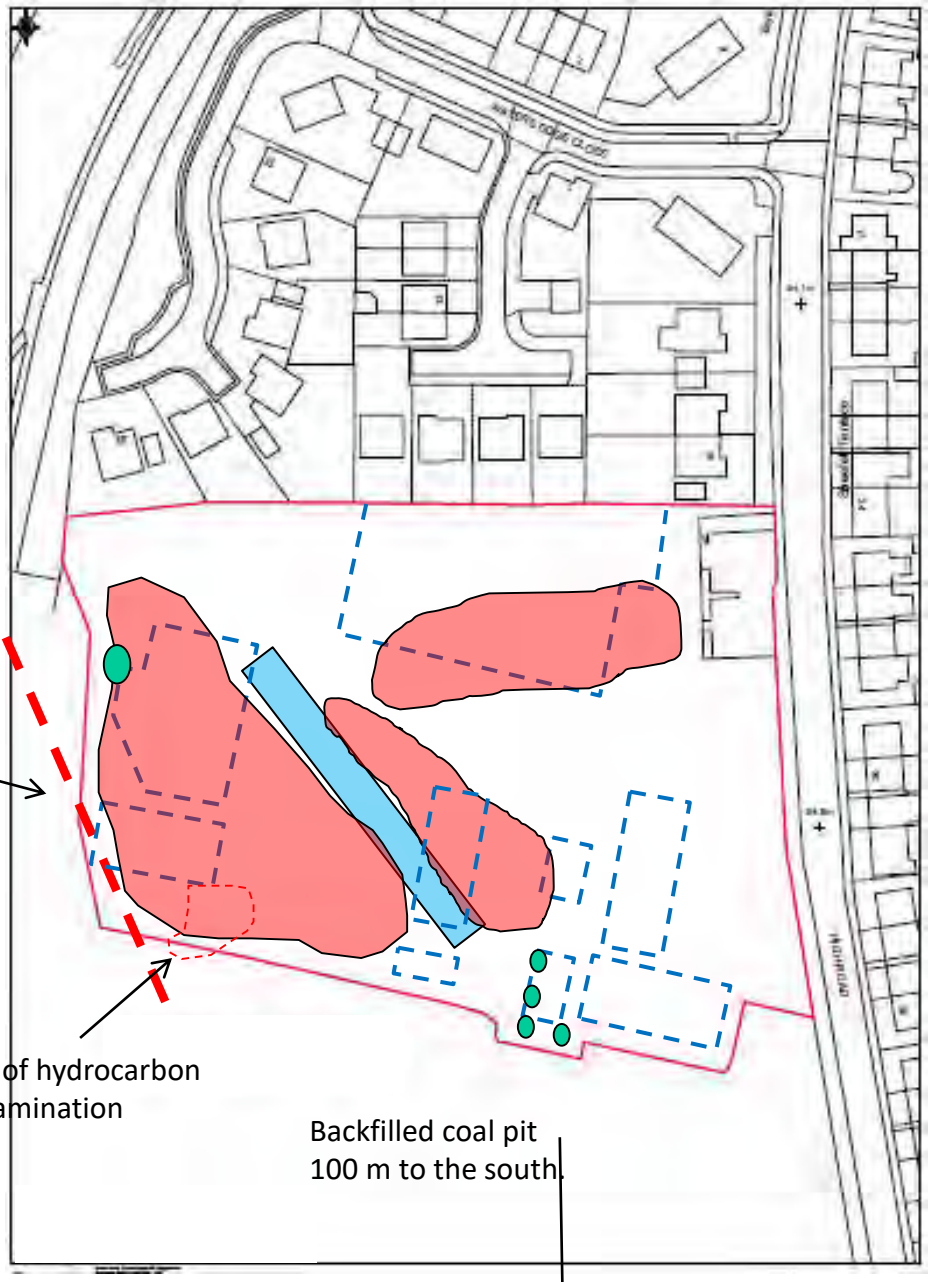
16 BRE, 2005. Concrete in Aggressive Ground, BRE Special Digest 1.

APPENDIX 1

DRAWINGS

APPENDIX 1.1

FWS DRAWINGS



NOTES / KEY

SITE LOCATION

FOOTPRINT OF HISTORIC BUILDINGS

DEMOLITION STOCKPILES

WATERLOGGED GROUND

FORMER TANKS

DRAWING TITLE

SITE FEATURES

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
GH	April 2019
SCALE	DRG. No.
NOT TO SCALE	8190OD01Rev1

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NOTES / KEY

SITE LOCATION

AREA OF PROPOSED ANTI-DIG LAYER

DRAWING TITLE

PROPOSED ANTI-DIG LAYER

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

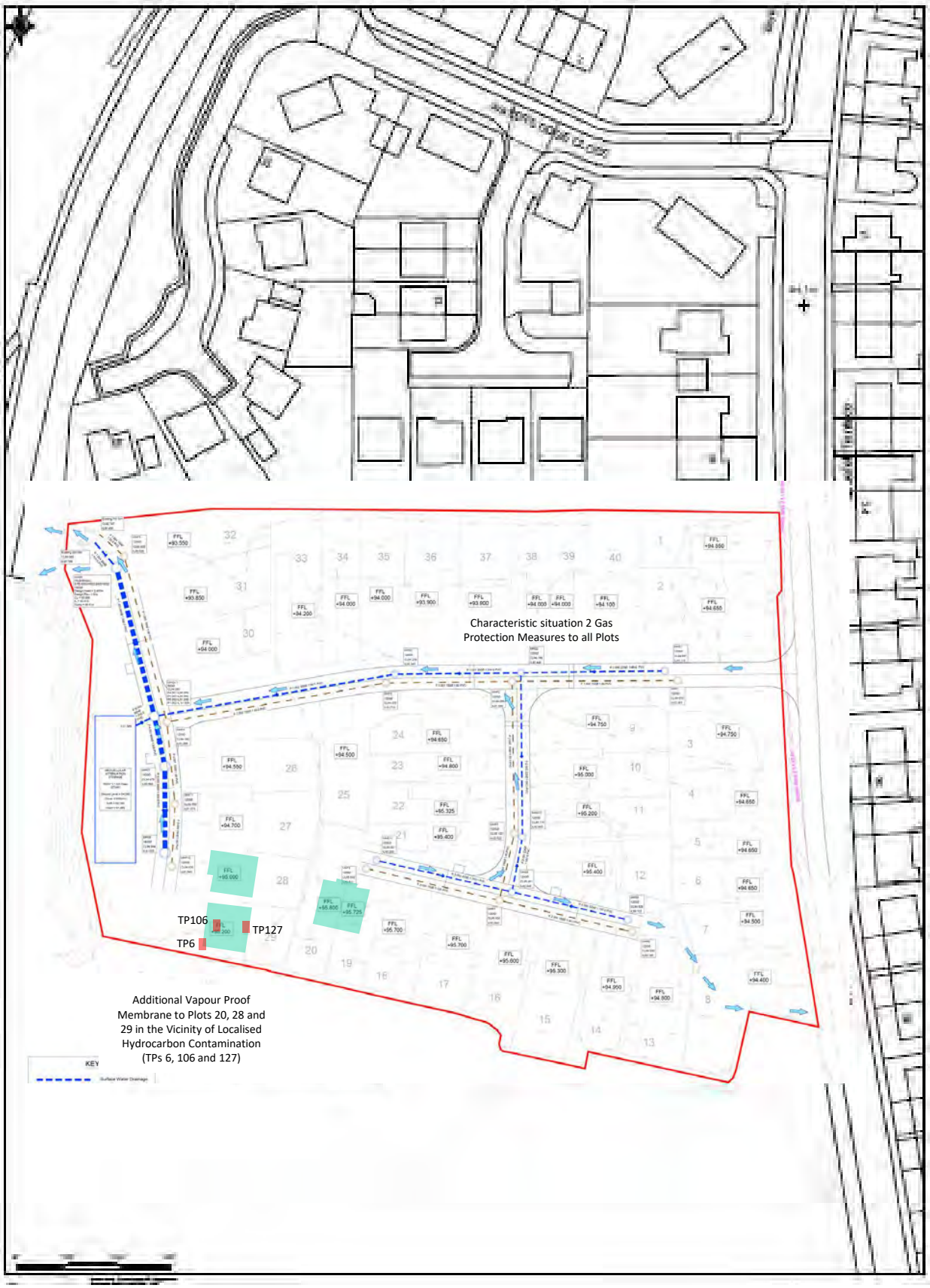
GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
GH	September 2022
SCALE	DRG. No.
NOT TO SCALE	8190OD04

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NOTES / KEY

SITE LOCATION

AREA OF PROPOSED VAPOUR PROOF MEMBRANE

DRAWING TITLE

PROPOSED VAPOUR MEMBRANE TO SELECTED PLOTS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
GH	September 2022
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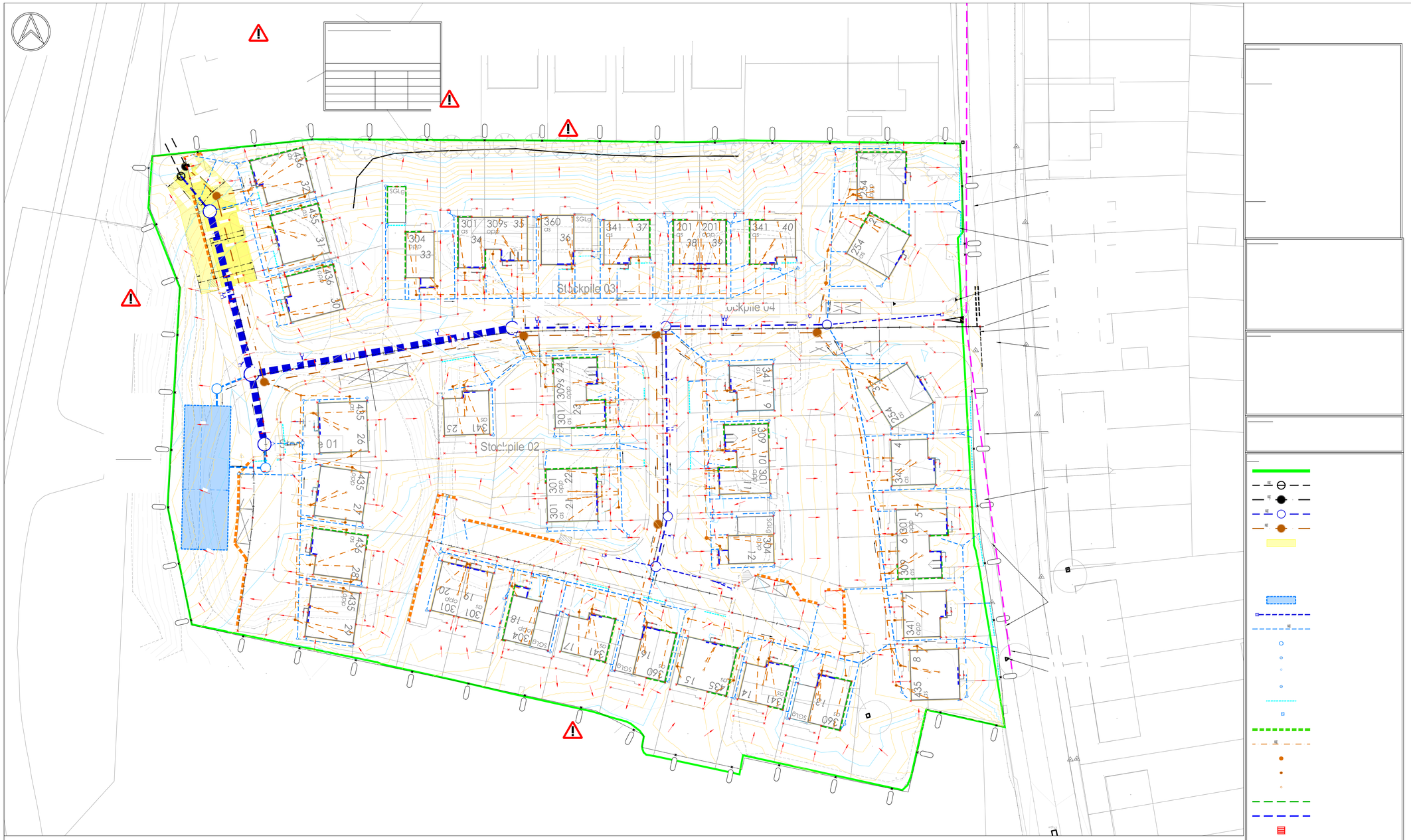
APPENDIX 1.2

THIRD-PARTY DRAWINGS

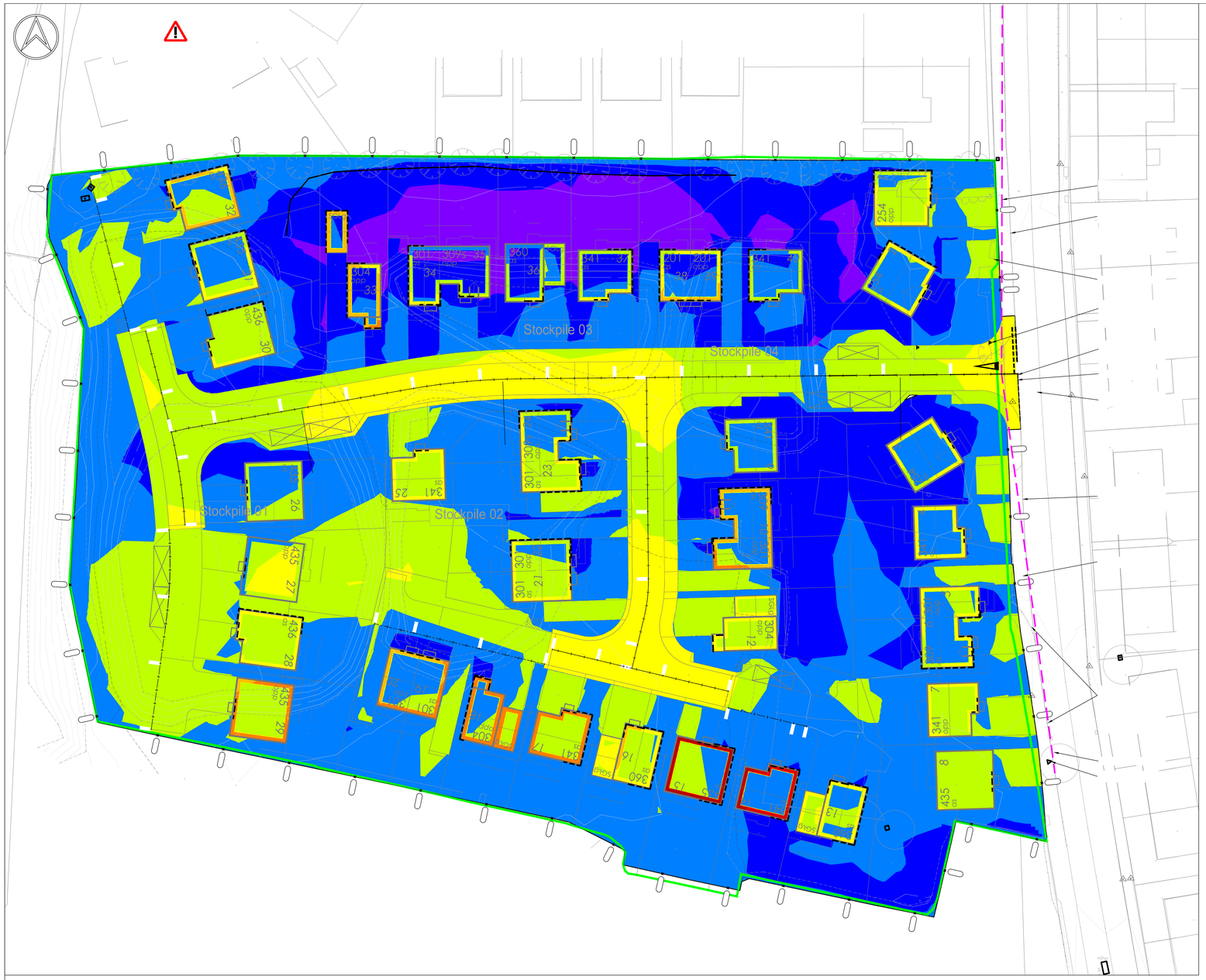

Promap

House Type	Quantity
201	3
212	1
301	9
309	5
307	4
315	4
310	6
435	6
436	4
Total#	42

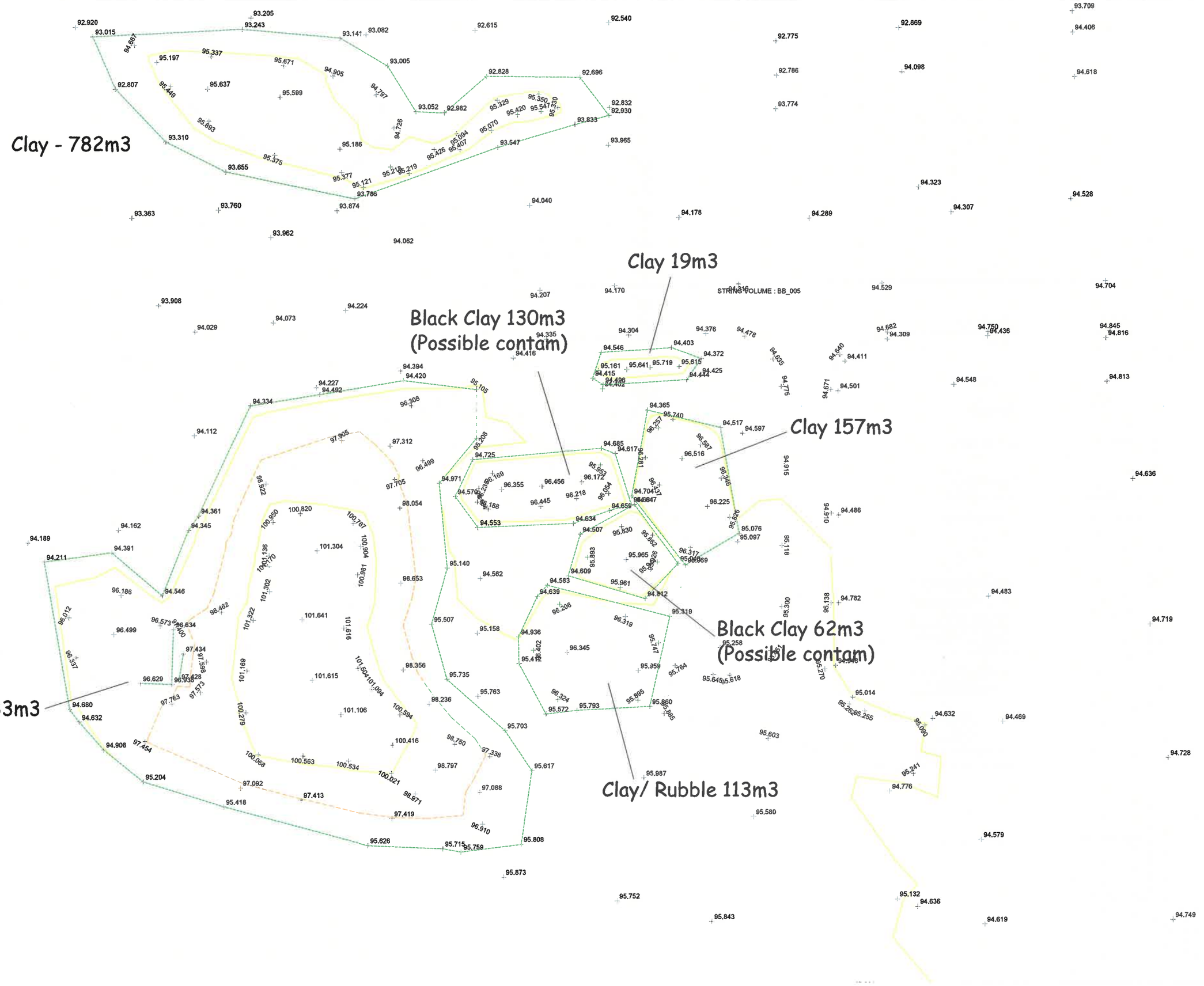
ASHWOOD
DESIGN ASSOCIATES LTD



RWO
CONSULTING ENGINEERS



RWO
CONSULTING ENGINEERS



DT
- CIVIL -
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Mobile 07894477747

Gleeson

Saltom Bay Heights

Material Quantifying

APPENDIX 2

SITE RECORDS AND PHOTOGRAPHS

APPENDIX 2.1

FWS October 2022



Photograph 1:



Photograph 2:

NOTES / KEY

FWS Photographs taken October 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 1

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Photograph 3:



Photograph 4:

NOTES / KEY

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INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT	GLEESON HOMES
STATUS	FINAL
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Photograph 5:



Photograph 6:

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Photograph 7:



Photograph 8:

NOTES / KEY

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INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

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GLEESON HOMES

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FINAL	8190
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SCALE	DRG. No.
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Photograph 9:



Photograph 10:

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PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

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FINAL	8190
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Photograph 11:



Photograph 12:

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PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 6

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Photograph 13:



Photograph 14:

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INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 7

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Photograph 15:



Photograph 16:

NOTES / KEY

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PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
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Photograph 17:



Photograph 18:

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INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 1

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Photograph 19:



Photograph 20:

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PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 1

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Photograph 21:



Photograph 22:

NOTES / KEY

FWS Photographs taken October 2022.

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PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 1

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APPENDIX 2.2

FWS December 2022



Photograph 1:



Photograph 2:



Photograph 3:

NOTES / KEY

FWS Photographs taken December 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 1

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Photograph 4:



Photograph 5:



Photograph 6:

NOTES / KEY

FWS Photographs taken December 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 2

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Photograph 7:



Photograph 8:



Photograph 9:

NOTES / KEY

FWS Photographs taken December 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 3

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Photograph 10:



Photograph 11:



Photograph 12:

NOTES / KEY

FWS Photographs taken December 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 4

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Photograph 13:



Photograph 14:



Photograph 15:

NOTES / KEY

FWS Photographs taken December 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 5

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Photograph 16:



Photograph 17:



Photograph 18:

NOTES / KEY

FWS Photographs taken December 2022.

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 6

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Photograph 19:

NOTES / KEY

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DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 7

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APPENDIX 2.3

CLIENT



Photograph 1:



Photograph 2:



Photograph 3:

NOTES / KEY

Gleeson Hoes Photographs

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

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FINAL	8190
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SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 1

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Photograph 1:



Photograph 2:



Photograph 3:

NOTES / KEY

Gleeson Hoes Photographs

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT

GLEESON HOMES

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FINAL	8190
DRAWN BY	DATE
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SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 2

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Photograph 1:



Photograph 2:



Photograph 3:

NOTES / KEY

Gleeson Hoes Photographs

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

INTERIM RECLAMATION VALIDATION REPORT FOR PLOTS 01 TO 08 AT RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN, CUMBRIA

CLIENT	GLEESON HOMES
STATUS	FINAL
PROJECT NUMBER	8190
DRAWN BY	AR
DATE	OCTOBER 2023
SCALE	NOT TO SCALE
DRG. No.	8190 PLATE 3

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Photograph 1:



Photograph 2:

NOTES / KEY

Gleeson Hoes Photographs

DRAWING TITLE

PHOTOGRAPHIC RECORD

PROJECT TITLE

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CLIENT

GLEESON HOMES

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AR	OCTOBER 2023
SCALE	DRG. No.
NOT TO SCALE	8190 PLATE 4

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APPENDIX 2.4

GEO ENVIRONMENTAL INSPECTION RECORDS

Project Title: Saltom Bay Heights, Waters Edge, Whitehaven
Client: Gleeson
Project Number: GEO2022-5495
Site Visit: 01.11.2023
Engineer: Curtis Evans
Client Representative: Shaun Frith

WATCHING BRIEF RECORD SHEET

Scope of Works:

- Construction of residential properties with associated infrastructure.
- Regular watching brief to assess for potential previously undiscovered contamination.

Weather Conditions:	Cloudy, dry, moderate winds, c.9ºc
Observations*:	General construction progressing well on site. Main site road in position. Plots 1 to 8 complete and signed off. Full site walkover completed. Nothing visually noted of concern or beyond the findings of the FWS investigation. The stockpiles previously located in the western site area are being disposed of off site and are reducing in size allowing more of the underlying ground to be visually inspected.
General Comments:	No evidence of any suspicious materials visually noted during the walkover. GEO will make regular visits (monthly) and more frequently (if required) at the special request of the client. In between, it is the responsibility of the Main Contractor/Site Manager to ensure any potential contamination discoveries and reported so they can be assessed.

*See adjoining plan

Completed By:

Curtis Evans
For and On Behalf Of GEO Environmental Engineering Limited

Reviewed By:

James Brock
For and On Behalf Of GEO Environmental Engineering Limited

















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GEO Environmental Engineering

GEO2022-5495: Water's Edge, Whitehaven (Watching Brief Inspection Plan) (Approx Locations – Not to Scale)



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End of Watching Brief Record Sheet

Project Title: Saltom Bay Heights, Waters Edge, Whitehaven
Client: Gleeson
Project Number: GEO2022-5495
Site Visit: 04.12.2023
Engineer: Curtis Evans
Client Representative: Shaun Frith

WATCHING BRIEF RECORD SHEET

Scope of Works:

- Construction of residential properties with associated infrastructure.
- Regular watching brief to assess for potential previously undiscovered contamination.

Weather Conditions:	Cloudy, dry, light winds, c.-2ºc
Observations*:	General construction progressing well on site. Main site road in position. Plots 1 to 8 complete and signed off. Full site walkover completed. Nothing visually noted of concern or beyond the findings of the FWS investigation. The stockpiles previously located in the western site area have been disposed of off-site allowing more of the underlying ground to be visually inspected. FWS have completed additional delineation works and contaminated material removal (off-site) in the SW site area, as per their Remediation Documentation.
General Comments:	No evidence of any suspicious materials visually noted during the walkover. GEO will make regular visits (monthly) and more frequently (if required) at the special request of the client. In between, it is the responsibility of the Main Contractor/Site Manager to ensure any potential contamination discoveries and reported so they can be assessed.

*See adjoining plan

Completed By:

Curtis Evans
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Reviewed By:

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Environmental Engineering

GEO2022-5495: Water's Edge, Whitehaven (Watching Brief Inspection Plan) (Approx Locations – Not to Scale)



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End of Watching Brief Record Sheet

Project Title: Saltom Bay Heights, Waters Edge, Whitehaven
Client: Gleeson
Project Number: GEO2022-5495
Site Visit: 04.01.2024
Engineer: Curtis Evans
Client Representative: Shaun Frith

WATCHING BRIEF RECORD SHEET

Scope of Works:

- Construction of residential properties with associated infrastructure.
- Regular watching brief to assess for potential previously undiscovered contamination.

Weather Conditions:	Cloudy, very wet, light to moderate winds, c.4ºc
Observations*:	General construction progressing well on site. Main site road in position. Plots 1 to 8 complete and signed off. Additional plots progressing but not yet at sign-off stage. Full site walkover completed. Nothing visually noted of concern or beyond the findings of the FWS investigation. The stockpiles previously located in the western site area have been disposed of off-site allowing more of the underlying ground to be visually inspected. FWS have completed additional delineation works and contaminated material removal (off-site) in the SW site area, as per their Remediation Documentation. Excavations for utilities visually inspected.
General Comments:	No evidence of any suspicious materials visually noted during the walkover. GEO will make regular visits (monthly) and more frequently (if required) at the special request of the client. In between, it is the responsibility of the Main Contractor/Site Manager to ensure any potential contamination discoveries and reported so they can be assessed.

*See adjoining plan

Completed By:

James Brock
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Reviewed By:

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GEO Environmental Engineering

GEO2022-5495: Water's Edge, Whitehaven (Watching Brief Inspection Plan) (Approx Locations – Not to Scale)



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End of Watching Brief Record Sheet

Project Title: Saltom Bay Heights, Waters Edge, Whitehaven
Client: Gleeson
Project Number: GEO2022-5495
Site Visit: 11.01.2024
Engineer: Curtis Evans
Client Representative: Shaun Frith

WATCHING BRIEF RECORD SHEET

Scope of Works:

- Construction of residential properties with associated infrastructure.
- Regular watching brief to assess for potential previously undiscovered contamination.

Weather Conditions:	Cloudy, very wet, light to moderate winds, c.4ºc
Observations*:	General construction progressing well on site. Plot 40 complete unit and Plots 37 to 39 now with windows and doors. Plot 36 up to first floor level. Main site road in position. Plots 1 to 8 complete and signed off. Additional plots progressing but not yet at sign-off stage. Full site walkover completed. Nothing visually noted of concern or beyond the findings of the FWS investigation. The stockpiles previously located in the western site area have been disposed of off-site allowing more of the underlying ground to be visually inspected. FWS have completed additional delineation works and contaminated material removal (off-site) in the SW site area, as per their Remediation Documentation. Excavations for utilities visually inspected.
General Comments:	No evidence of any suspicious materials visually noted during the walkover. GEO will make regular visits (monthly) and more frequently (if required) at the special request of the client. In between, it is the responsibility of the Main Contractor/Site Manager to ensure any potential contamination discoveries and reported so they can be assessed.

*See adjoining plan

Completed By:

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Reviewed By:

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GEO Environmental Engineering

GEO2022-5495: Water's Edge, Whitehaven (Watching Brief Inspection Plan) (Approx Locations – Not to Scale)



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End of Watching Brief Record Sheet

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GEO Environmental Engineering





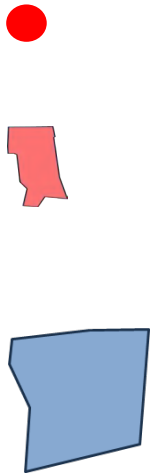




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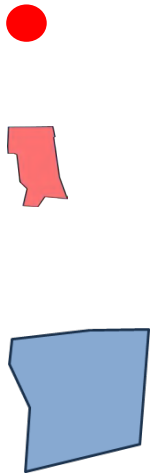




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Project Title: **Saltom Bay Heights, Waters Edge, Whitehaven**
Client: **Gleeson**
Project Number: **GEO2022-5495**
Site Visit: **23.02.2024**
Engineer: **Curtis Evans**
Client Representative: **Shaun Frith**

WATCHING BRIEF RECORD SHEET

Scope of Works:

- Construction of residential properties with associated infrastructure.
- Regular watching brief to assess for potential previously undiscovered contamination.

Weather Conditions:	No site visit made – phone call
Observations*:	GEO was advised that foundation excavations were being dug for Plot 26 and a relict drain was encountered that included some sediment and water with a contaminated type sheen. Gleeson had stockpiled these materials separately to avoid cross-contamination and were looking to validate the excavation before removing the materials for appropriate off-site disposal. GEO offered to attend site but was informed that FWS were continuing their contamination "hot spot" delineation exercise elsewhere on site and would deal with the validation of the discovery at Plot 26. Gleeson wanted to inform GEO of the discovery as we are undertaking regular watching brief visits.
General Comments:	GEO will continue to make regular visits (monthly) and more frequently (if required) at the special request of the client. In between, it is the responsibility of the Main Contractor/Site Manager to ensure any potential contamination discoveries and reported so they can be assessed.

*See plan

Completed By:
Curtis Evans
For and On Behalf Of GEO Environmental Engineering Limited

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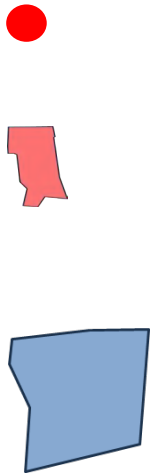




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APPENDIX 2.5

FWS ADDITIONAL INVESTIGATIONS

ADDITIONAL GROUND INVESTIGATION AND HOTSPOT DELINAEATION FOR RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN

8190OR15/December 2023

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PROJECT NUMBER	8190	
PROJECT TITLE	Water's Edge, Whitehaven	
CLIENT	Gleeson Homes Cumbria Rural Enterprise Centre Redhills Penrith Cumbria CA11 0DT	
REPORT TITLE	Additional Ground Investigation and Hotspot Delineation for Residential Development on Land at Water's Edge, Whitehaven	
REPORT REFERENCE	8190OR15	
REVISION	**Date**	**Checked**
Rev00	22/12/2023	ML

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1.1 General Background 1

2 DEVELOPMENT PROPOSALS 2

3 SITE DESCRIPTION 2

3.1 Location and Site Features 2

4 GROUND INVESTIGATION 2

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FACTUAL REPORT ON GROUND INVESTIGATION FOR RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN

1 INTRODUCTION

1.1 General Background

FWS Consultants Ltd (FWS) carried out a Phase I and II Ground Investigation for land at Water's Edge, Whitehaven (the 'Site') for Gleeson Homes (the Client) to provide information for a proposed residential development with domestic gardens and road infrastructure. The site location is shown on the Client's Site Plan, Appendix 1.2.

The ground investigation had recorded a localised hydrocarbon hotspot in the southwest of the site, however, due to the presence of an adjacent stockpile of cohesive material, the contamination source could not be fully investigated. The stockpile has now been removed, and Gleeson Homes requested FWS Consultants to carry out further investigation works to delineate and assess the extent of the hydrocarbon hotspot.

In the addition to the above, Gleeson Homes also requested FWS Consultants to provide information on possible buried structures in the west of the site that were also located beneath the previous stockpile footprint, and to assess the chemical quality of the recycled aggregate imported to use as part of the new road construction.

1.2 Objectives

The objectives of the ground investigation were to:

To prove the extent of the hydrocarbon hotspot in the southwest.
To give information on the chemical quality of the contaminated soils.
To prove all contaminated materials have been removed.
To give information on potential buried structures in the west.
To give information on the new road make up.

1.3 Scope

The ground investigation was carried out in accordance with the Reclamation Method Statement (Ref. 6) to provide information on ground conditions for the proposed development. The specification requirements were:-

Excavation of trenches to locate and delineate the full extent of the hydrocarbon hotspot in the southwest;
Excavation of trial pits in the west (beneath the former stockpile) to provide comment on possible buried structures; and
Excavation of one trial pit in the vicinity of the newly built roads to provide information on the as built design.

Chemical testing, including

- Waste characterisation and WAC testing of the hydrocarbon hotspot material removed to stockpile for offsite disposal.
- Full soil suite on the recycled material placed within the new road make up.

2 DEVELOPMENT PROPOSALS

The proposed development is for a residential development comprising 42 No. detached and semi-detached properties with domestic gardens and associated road infrastructure. The development layout as proposed is shown in Drawing BP001, Appendix 1.2.

3 SITE DESCRIPTION

3.1 Location and Site Features

The 1.4 ha site at National Grid Reference 296680E, 516290N is located off High Road at Water's Edge, Whitehaven, as shown on the Client's Site Plan, Appendix 1.2.

The eastern half of the site was currently under development with residential properties being completed along the eastern boundary and construction works ongoing in the central area. The site compound was in the northwestern corner of the site.

The site is bordered by residential development to the north and east with derelict open space to the south and west.

The western area remains to be developed.

3.2 Topography

The site is generally flat-lying at an elevation of around 95 m AOD and is surfaced by demolition fill with localised hardstanding in the southeast. At the time of the works (7 November 2023), the stockpile that was present in the west of the site has now been mostly removed with only limited quantities remaining on site which were getting disposed off-site at the time of works as shown in Drawing 8190OD07, Appendix 1.1.

4 GROUND INVESTIGATION

4.1 General

The ground investigation, which was supervised and coordinated by FWS, was undertaken on 7 November 2023. A location plan of the completed exploratory hole positions is presented in Drawing 8190OD07 (Appendix 1.1).

All available services and utility plans were reviewed prior to confirming the locations of the exploratory holes.

Each exploratory hole location was checked for buried services using a Cable Avoidance Tool (CAT) by FWS prior to commencing the intrusive investigation. Inspection pits were then dug using a tracked excavator.

The fieldwork and investigation was generally carried out in accordance with the principles of BS 10175:2011+A1:2013 (Ref. 1), BS 5930:2015 (Ref. 2) and BS EN ISO 14688 (Ref. 4), and comprised:-

Two trenches (TT-1 and TT-2) to depths of up to 1.80 m bgl to enable the made and natural soils to be examined in the area of the hydrocarbon hotspot.
Three trial pits (TPA to TPC) to depths of up to 1.80 m bgl to enable the made ground to be examined and identify any potential buried structures in the west.
One trial pit (TPD) to 1.30 m bgl to enable the new road make up to be examined.

A Schedule of Exploratory Holes including survey details, final depths and testing information is provided in Appendix 2. The descriptions of the strata encountered are provided in the borehole and trial pit logs presented in Appendices 2.1 and 2.2.

FWS scheduled the chemical testing, and the samples were transported to DETS for analysis. The analytical certificates are presented in Appendix 3.

The FWS engineer was onsite full time during the site works in order to view the site, locate the exploratory holes, coordinate the fieldwork, log the exploratory holes and undertake the sampling.

4.2 Constraints to Ground investigation

Generally, it was possible to undertake the ground investigation in accordance with the specification requirements. However, only one location along the new road could be examined, as ongoing construction work activities and newly installed services prevented from breaking ground elsewhere along the road alignment.

4.3 Laboratory Testing

4.3.1 Chemical Analysis

As summarised below, chemical testing was carried out on selected soil samples as requested and agreed by the Client and the results are included in Appendix 3.

The following chemical soil analysis has been carried out by a MCERTS/UKAS accredited laboratory:-

Hydrocarbon Hotspot

Three made ground samples (from excavated material) – Two samples of cohesive made ground for TPH/CWG + BTEX/MTBE suite and one sample for Schedule 1 and Waste Acceptance Criteria.
Three natural cohesive samples (insitu/base of excavation) – Three sample of natural cohesive soil for TPH/CWG + BTEX/MTBE suite.

New Road Make Up

One made ground sample – One sample of cohesive made ground for Schedule 1.

Schedule 1 – Standard Soil Suite including: arsenic, boron, cadmium, chromium, chromium hexavalent, copper, lead, mercury, nickel, selenium, zinc, pH, cyanide, organic matter, chloride,

water soluble sulphate, sulphate, TPH/CWG, BTEX, MTBE, PAH (16 priority), phenol and asbestos identification.

4.3.2 Quality Assurance and Quality Control

Quality assurance and control of the investigation was implemented in accordance with the following standards and industry guidance:

Site Investigation Protocols the fieldwork was carried out following the principles of BS 10175:2011+A1:2013 (Ref. 1), BS5930:2015+A1:2020 (Ref. 2) and BS EN ISO 14688 (Ref. 7). Sampling Protocols were carried out following the principles of BS 5930:2015+A1:2020 (Ref. 2).
The environmental testing was undertaken by Derwentside Environmental Testing Services (DETS), a MCERTS/UKAS accredited laboratory.

5 RESULTS OF SITE INVESTIGATION

5.1 General

The strata descriptions are compiled from an examination of the disturbed samples.

5.2 Ground Conditions

5.2.1 Hardstanding and Below Ground Structures

No hardstanding was encountered during the ground investigation within the hydrocarbon hotspot and western areas of the site below the footprint of the .

Asphalt base course hardstanding was present along the newly built roads.

No below ground structures were encountered during the ground investigation, with the exception of large concrete block present along the southern boundary adjacent to the hydrocarbon hotspot.

5.2.2 Topsoil

Topsoil was not encountered during the ground investigation.

5.2.3 Made Ground

Made ground was present across the site and comprised the following principal types:

Hydrocarbon Hotspot

Cohesive made ground to depths of up to 1.50 m bgl comprising dark grey sandy gravelly clay containing gravel of sandstone, mudstone, slag, ceramic and clay pipe with frequent pockets of black stained granular material containing evidence of hydrocarbon contamination.

Western Area

Cohesive made ground to depths of between 0.6 and 1.3 m bgl comprising sandy very gravelly clay with gravel of sandstone, brick, slag, ceramic and concrete. A light organic odour was noted in TPA throughout the made ground material.

Road Make Up

Four distinct layers were noted as detailed below from top to bottom:-

- 450 mm thick concrete
- 200 mm thick of compacted light grey hardcore.
- 200 mm thick of compacted dark grey hardcore
- At least 450 mm thick of compacted mixed brown granular/cohesive fill with gravel of sandstone, cement, brick, plastic and slag.

Made ground was typically present to depths of around 0.6 to 1.5 m bgl, where the full thickness was proven. Full details are presented on the logs in Appendix 2.

5.2.4 Superficial Deposits

The superficial deposits underlying the site (where encountered) mainly consist of firm to stiff brown slightly sandy gravelly clay with gravel of sandstone mudstone and coal from depths of between 0.6 and 1.50 m bgl to depths of at least 1.80 m bgl.

5.2.5 Groundwater

Groundwater was not encountered during this ground investigation with the exception of wet granular pockets in the area of the hydrocarbon hotspot.

6 MATERIAL PROPERTIES

6.1 Chemical Properties

6.1.1 Visual/Olfactory Evidence of Contamination

Hydrocarbon Hotspot

Visual evidence of hydrocarbon contamination (black stain and slight oily sheen) within granular pockets in the made ground was noted in trenches TT-1 and TT-2, however, no significant olfactory contamination was noted.

Western Area and Road Make Up

No significant evidence of visual and olfactory contamination was noted, with the exception of a light organic odour throughout the made ground material in TPA.

6.1.2 Soils – Total Concentration/Contamination

The results of all chemical testing have been compiled into data tables, which are presented in Appendix 4. This table presents the minimum, mean and maximum concentrations of determinands for contaminants detected during the ground investigations and highlight determinands that exceed the Generic Assessment Criteria for residential housing with gardens using an average soil organic matter value of 1%.

Hydrocarbon Hotspot

No significant concentrations of contaminants were reported with the made ground material within the hydrocarbon hotspot area, with the exception of elevated of TPH (aromatic C12-C16)

recorded at 1,200 mg/kg (Assessment Value for aromatic C12-C16: 140 mg/kg), which may pose a risk of harm to human health. It should be noted that the level of contamination appears to have further reduced since the previous investigations.

Road Make Up

Slightly elevated concentrations of PAHs were reported to be present within the road make up, with benzo(b)fluoranthene at 4.2 mg/kg, benzo(a)pyrene at 6.5 mg/kg and dibenzo(a,h)anthracene at 0.9 mg/kg (Assessment Value: 2.6, 2.2 and 0.24 mg/kg respectively) which may pose a risk of harm to human health.

No other elevated concentrations of contaminants were reported to be present.

6.1.3 Asbestos in Soils

No asbestos was encountered during the site investigation and was not reported to be present in any of the samples tested.

6.1.4 Gas Monitoring

During excavation of the trenches in the area of the hydrocarbon hotspot and road make up Volatile Organic Compounds (VOCs) were monitored using a photo ionization detector and the results are presented in the table below:-

Sample ID	Material	PID Value (ppm)
Road 6F2	Recycled Aggregate beneath new road	1.5
Hotspot West	Insitu natural clay beneath hydrocarbon contaminated made ground	2.0
Hotspot East		1.0
Hotspot West		1.5
Stockpile 1	Hydrocarbon contaminated material excavated from hydrocarbon hotspot	1.9
Stockpile 2		3.3
Stockpile 3		2.3

6.1.5 Assessment of Hazardous / Non-Hazardous Waste Properties – Hydrocarbon Hotspot

If earthworks arisings or arisings from constructions works (e.g. foundation or service trench excavations) are intended for disposal then there is a requirement to determine prior to disposal whether these would classify as, hazardous or non-hazardous, in accordance with the Environment Agency's technical guidance 'Waste Classification (WM3, 1st edition V. 1.2 GB 2021). That classification assesses the composition of the material and determines whether there are concentrations of the hazardous substances in the material.

The basic characterisation presented in this report has considered the total concentrations results, as presented in Sections 4, to determine whether the materials contain concentrations that characterise as hazardous. An assessment of the chemical analysis results for the (1no sample of made ground within the hydrocarbon hotspot area), has been carried out using HazWaste Online, and the results of this assessment are presented in Appendix 5.

The results of that basic characterisation assessment has determined that the 1no of the made ground samples (Hotspot Stockpile 3) characterises as non-hazardous material.

Although this characterisation assessment has determined the made ground material in the area of the hydrocarbon hotspot to be non-hazardous, additional spot samples have found localised elevated concentrations of TPH which would classify this material as hazardous. However, the overall average of the excavated material will likely remain as non-hazardous.

6.1.6 Waste Acceptance Criteria Testing – Hydrocarbon Hotspot

In accordance with the Landfill Regulations (2005) and Waste Framework Directive (WFD) (2008/98/EC), it is a statutory requirement that a waste meets specific Waste Acceptance Criteria (WAC) prior to disposal at a landfill site. Landfills are classified according to whether they can accept hazardous, non-hazardous or inert wastes. Wastes can only be accepted at a landfill if they meet the waste acceptance criteria (WAC) for that class of landfill.

Currently there are only acceptance criteria for inert, stable-non-reactive hazardous (SNRH) and hazardous landfills. This means that WAC testing is only required for wastes destined for Inert, SNRH and Hazardous landfills. If material is classified as non-hazardous, there is a choice of sending the material to a non-hazardous or an inert landfill (subject to meeting inert waste acceptance levels). Where the material is classified as hazardous, WAC analysis is required to demonstrate that it meets the acceptance levels for hazardous landfill or stable non-reactive hazardous (SNRH) landfill.

Based on the assessment of hazardous and non-hazardous properties, as presented above, the made ground stockpile of excavated material from the hydrocarbon hotspot is determined to characterise as predominantly “Non Hazardous.” (Hotspot Stockpile 3). As such, the 1no. sample had Full WAC tests undertaken on them to determine whether it meets the inert and hazardous acceptance levels. The results of that testing, presented in Appendix 3, determined that the material would classify as Non-Hazardous (slightly elevated total organic carbon content means it would not be possible to meet the inert criteria) for offsite disposal.

7 CONCLUSION

Hydrocarbon Hotspot

During this ground investigation all visually contaminated materials have been removed. The contaminated material that has been excavated was tested and assessed, and classifies as Non-Hazardous material for off-site disposal. Following removal of the contaminated material, the underlying insitu natural clay was tested, and no significant concentrations of contaminants was identified, indicating that the hydrocarbon hotspot did not spread into the wider environment and was successfully removed.

No further investigation/mitigation measures are deemed necessary.

Buried Structures – Western Area

Following removal of the historical stockpile in the west of the site, additional exploratory holes were carried out to inspect for possible relict buried structures. Three trial pits were carried out (TPA, B and C) and no evidence of relict buried structures were recorded.

However, during the investigation of the hydrocarbon hotspot in the southwest of the site, large loose concrete blocks were found to be present along the site boundary. These should be removed prior to re-developing the area.

Road Make Up

Gleeson Homes Cumbria has indicated that imported recycled aggregates classed as 6F2 were used in the road make up. This ground investigation recorded at least 450 mm thick of the recycled aggregate was placed under the road, as detailed in Section 5.2. in the absence of Contractor records demonstrating the chemical and geotechnical suitability of these materials, additional chemical testing was carried out on one sample of the recycled aggregate, which has identified slightly elevated concentrations of PAHs which may pose a risk of harm to human health.

As such, the recycled aggregate would be classified as contaminated fill materials that would only be suitable for re-use beneath clean soils or building and hardstanding. If any of this material has been used elsewhere on site other than under cover soils, hardstanding or buildings, it should either be replaced with suitable material or a suitable clean cover system should be adopted in accordance with the Reclamation Method Statement (Ref. 6).

[redacted]

A FRY
GEO-ENVIRONMENTAL SCIENTIST

[redacted]

M LAKEY
DIRECTOR

8 REFERENCES

1 British Standards Institution, January 2001. BS 10175:2011, Investigation of Potentially Contaminated Sites – Code of Practice.

2 British Standards Institution, July 2015. BS 5930:2015+A1:2020, Code of Practice for Ground Investigations.

3 Environment Agency 2020. Land Contamination: Risk Management.

4 NHBC, 2020. NHBC Standards, Part 4 Foundations. Chapter 4.2 Building Near Trees.

5 DEFRA, 2012. Environmental Protection Act 1990: Part 2A Contamination Land Statutory Guidance.

6 FWS Consultants Ltd, October 2022. Reclamation Method Statement for the Proposed Residential Development on Land at Water's Edge, Whitehaven. Reference: 8190OR04 Rev.2

7 British Standards BS EN ISO 14688-1:2018 Geotechnical Investigation and Testing. Identification and Classification of Soil. Identification and Description.

APPENDIX 1

DRAWINGS

APPENDIX 1.1

FWS DRAWINGS



NOTES / KEY

Location of previously identified hydrocarbon hotspot

Footprint of Historic Building

Trench (FWS 2022)

Trench (FWS 2023)

Trial Pit (FWS 2023)

DRAWING TITLE

SITE NOTES AND EXPLORATORY HOLE LOCATION PLAN

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	December 2023
SCALE	DRG. No.
NOT TO SCALE	8190OD07

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APPENDIX 1.2

THIRD-PARTY DRAWINGS


Promap

House Type	Quantity
201	3
212	1
301	9
309	5
307	4
315	4
310	6
435	6
436	4
Total#	42

ASHWOOD
DESIGN ASSOCIATES LTD

APPENDIX 2

EXPLORATORY HOLE LOGS

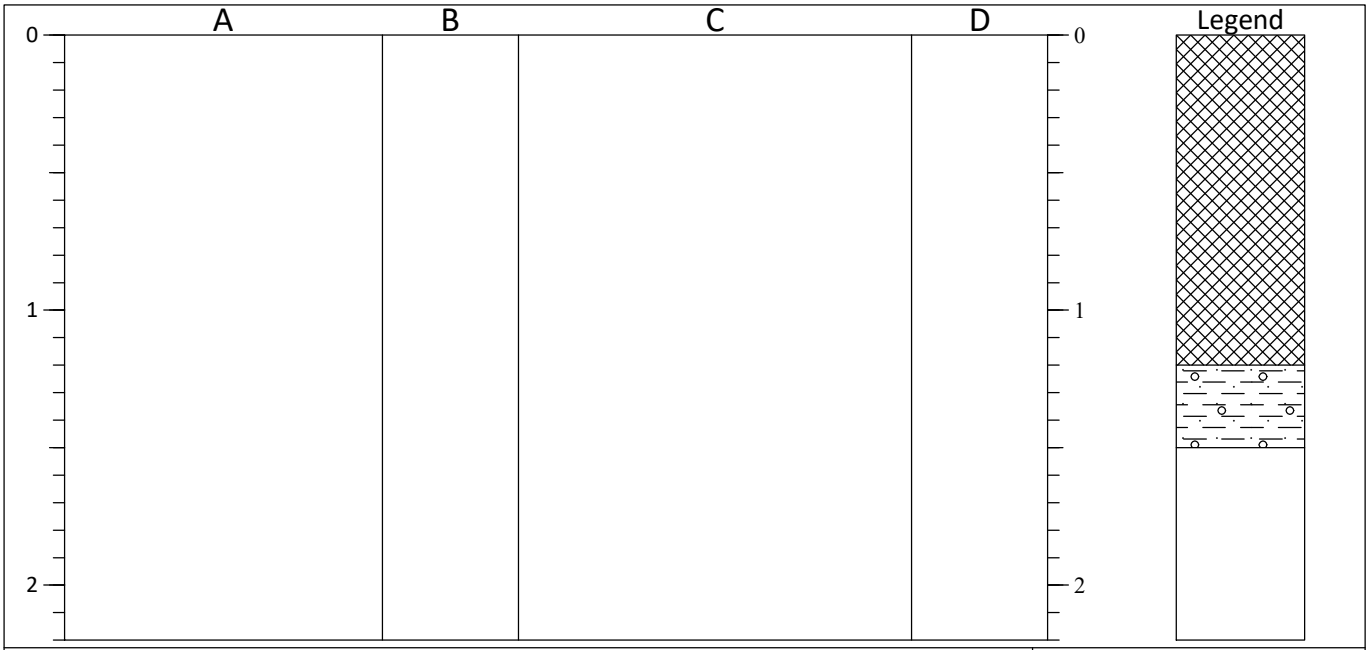
APPENDIX 2.1

Trial Pit

FWS Environmental & Geological Consultants

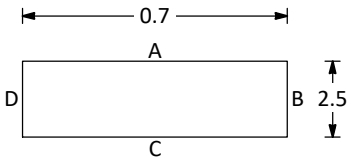
TRIAL PIT LOG

Project				TRIAL PIT No
Water's Edge, Whitehaven				**TPA**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
8190	07-11-23			
Contractor				Sheet
Gleeson Homes, Cumbria				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-1.20		MADE GROUND: Soft brown sandy very gravelly CLAY with medium cobble content and slight organic odour. Gravel is fine to coarse angular of brick sandstone slag ceramic and concrete.			
1.20-1.50		Firm brown sandy gravelly CLAY. Gravel is fine to coarse angular of sandstone mudstone and coal.			
1.50		End of excavation.			

Shoring/Support:
Stability: Stable





GENERAL REMARKS

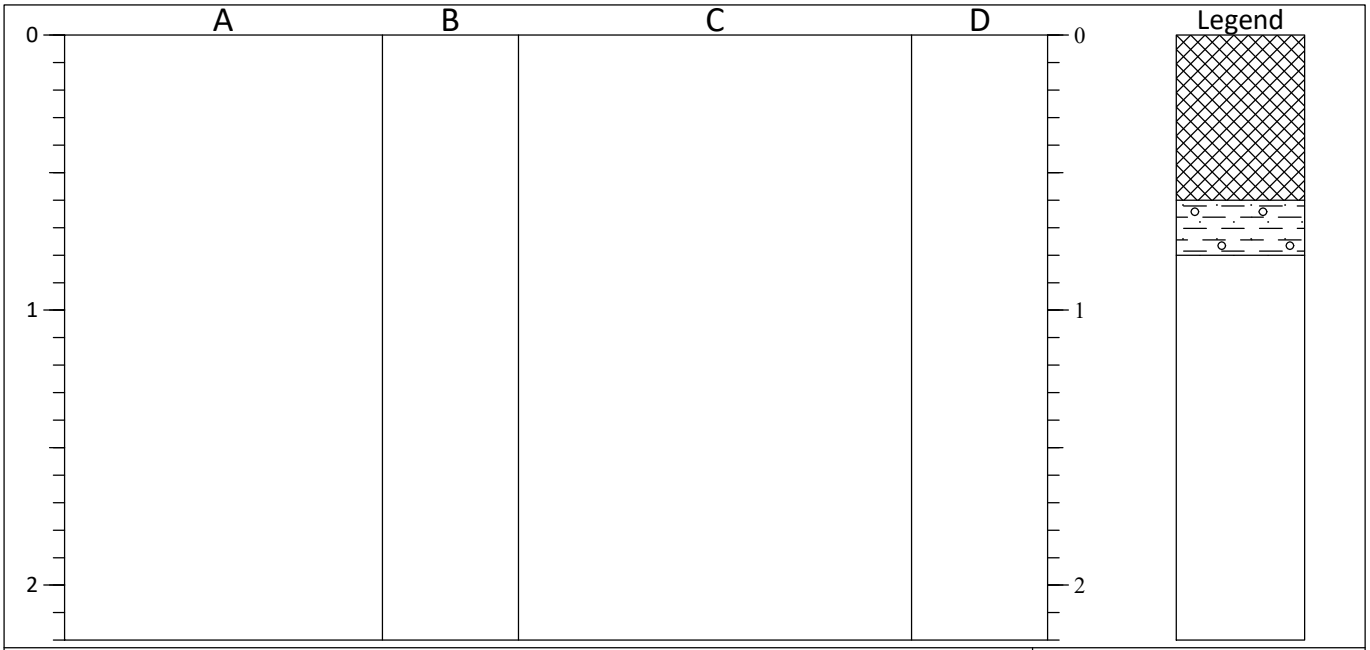
No visual signs of contamination. Slight organic odour noted between 0.0 and 1.2 m bgl.
No groundwater encountered.

All dimensions in metres Scale 1:27.5	Client Gleeson Homes, Cumbria	Method/ Plant Used Excavator	Logged By AF

FWS Environmental & Geological Consultants

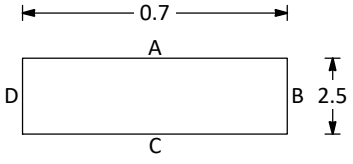
TRIAL PIT LOG

Project				TRIAL PIT No
Water's Edge, Whitehaven				**TPB**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
8190	07-11-23			
Contractor				Sheet
Gleeson Homes, Cumbria				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.60		MADE GROUND: Soft dark brown sandy very gravelly CLay with medium cobble content. Gravel is fine to coarse angular of sandstone brick concrete and slag.			
0.60-0.80		Firm brown sandy gravelly CLAY. Gravel is fine to coarse angular of sandstone mudstone and coal.			
0.80		End of excavation.			

Shoring/Support:
Stability: Stable





GENERAL REMARKS

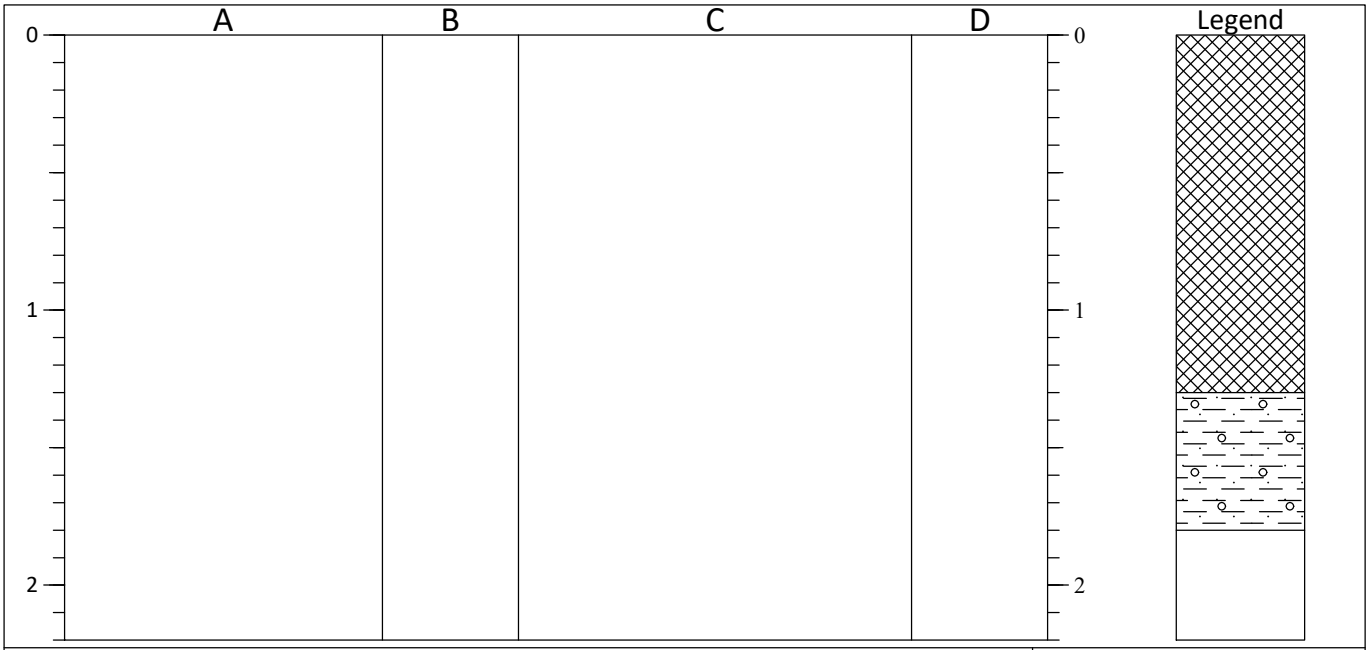
No visual or olfactory signs of contamination. No groundwater encountered.

All dimensions in metres Scale 1:27.5	Client Gleeson Homes, Cumbria	Method/ Plant Used Excavator	Logged By AF

FWS Environmental & Geological Consultants

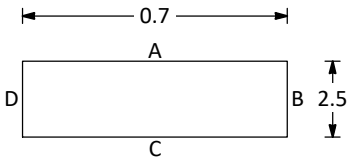
TRIAL PIT LOG

Project				TRIAL PIT No
Water's Edge, Whitehaven				**TPC**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
8190	07-11-23			
Contractor				Sheet
Gleeson Homes, Cumbria				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-1.30		MADE GROUND: Soft brown sandy very gravelly CLAY with medium cobble content. Gravel is fine to coarse angular of brick sandstone slag ceramic and concrete.			
1.30-1.80		Firm brown sandy gravelly CLAY. Gravel is fine to coarse angular of sandstone mudstone and coal.			
1.80		End of excavation.			

Shoring/Support:
Stability: Stable





GENERAL REMARKS

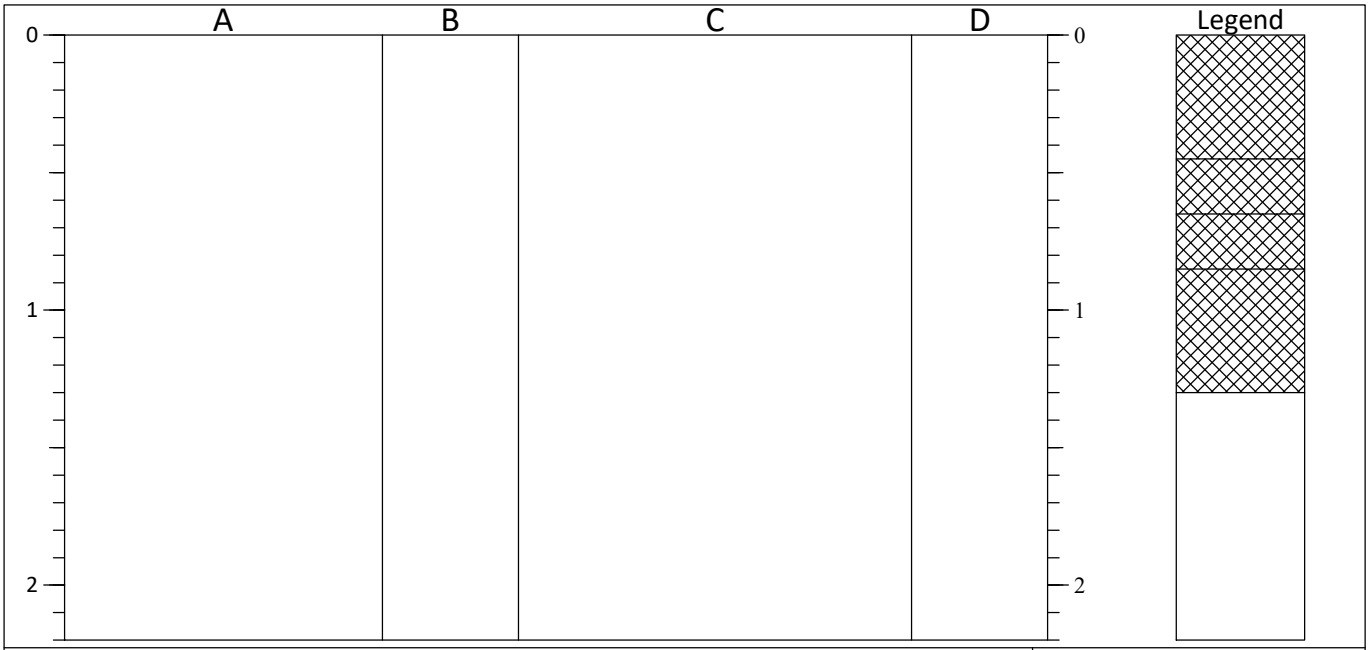
No visual or olfactory signs of contamination. No groundwater encountered.

All dimensions in metres Scale 1:27.5	Client Gleeson Homes, Cumbria	Method/ Plant Used Excavator	Logged By AF

FWS Environmental & Geological Consultants

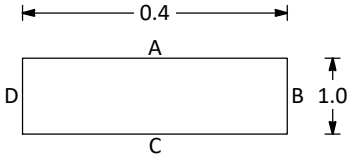
TRIAL PIT LOG

Project				TRIAL PIT No
Water's Edge, Whitehaven				**TPD**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
8190	07-11-23			
Contractor				Sheet
Gleeson Homes, Cumbria				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.45		MADE GROUND: Concrete.			
0.45-0.65		MADE GROUND: Light grey fine to coarse angular gravel of limestone.			
0.65-0.85		MADE GROUND: Dark grey fine to coarse angular gravel of limestone.			
0.85-1.30		MADE GROUND: Very stiff brown sandy very gravelly CLAY. Gravel is fine to coarse angular of sandstone concrete slag ceramic and plastic.	0.90	D/J	
1.30		End of excavation.			

Shoring/Support:
Stability: Stable





GENERAL REMARKS

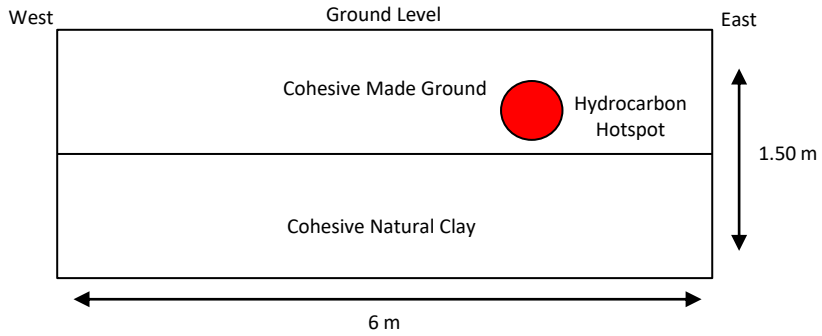
No visual or olfactory signs of contamination. No groundwater encountered.

All dimensions in metres Scale 1:27.5	Client Gleeson Homes, Cumbria	Method/ Plant Used Excavator	Logged By AF

APPENDIX 2.2

Trench

GENERAL CROSS SECTION OF TRENCH TT-1



TT-1 DETAILED LOG

0.00 – 1.00: MADE GROUND: Soft to firm dark grey sandy very gravelly CLAY with localised pockets of black stained granular material containing hydrocarbon contamination. Gravel is fine to coarse angular of sandstone mudstone, concrete, slag and ceramic.

1.00 – 1.50: Stiff light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular of sandstone mudstone and coal

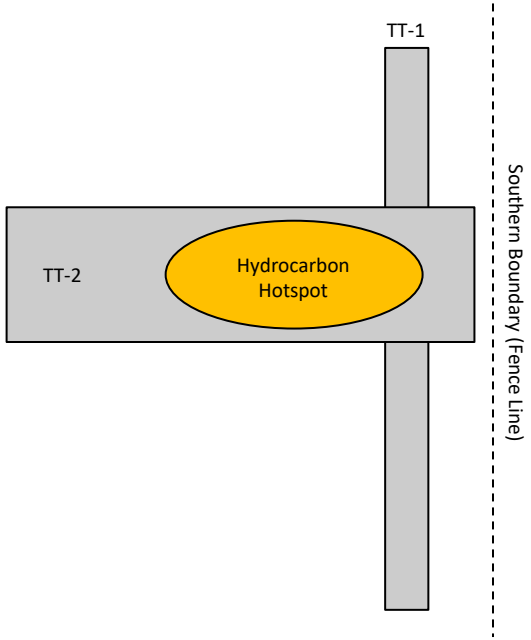
1.50: End of excavation

TT-1 REMARKS

Strong hydrocarbon odour from 0.3 to 1.00 m bgl.
Oily staining noted at 1.00 m bgl.
Slight water seepage within granular pockets throughout the made ground.

PLAN VIEW OF TRENCHES IN HOTSPOT AREA

(see Drawing 8190ODXX for Hole Location Plan)



NOTES / KEY

Date Completed: 07/12/2023
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH LOG IN VICINITY OF HYDROCARBON HOTSPOT – TT-1

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

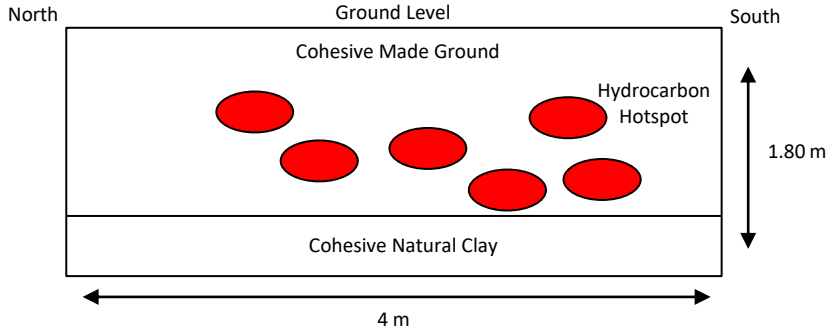
CLIENT	GLEESON HOMES CUMBRIA
STATUS	FINAL
PROJECT NUMBER	8190
DRAWN BY	AF
DATE	December 2023
SCALE	NOT TO SCALE
DRG. No.	LOG 1

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GENERAL CROSS SECTION OF TRENCH TT-2



TT-B DETAILED LOG

0.00 – 1.50: MADE GROUND: Soft to firm dark grey sandy very gravelly CLAY with localised pockets of black stained granular material containing hydrocarbon contamination. Gravel is fine to coarse angular of sandstone mudstone, concrete, slag and ceramic.

1.50 – 1.80: Stiff light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular of sandstone mudstone and coal

1.80: End of excavation

TT-B REMARKS

Strong hydrocarbon odour from 0.3 to 1.00 m bgl.
Oily staining noted at 1.00 m bgl.
Slight water seepage within granular pockets throughout the made ground.

SAMPLES

- Hotspot Stockpile 1, 2 and 3 (Sample taken from excavated made ground material)
- Hotspot Base, West and East (Sample taken from the underlying insitu natural clays)

NOTES / KEY

Date Completed: 07/12/2023
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH LOG IN VICINITY OF HYDROCARBON HOTSPOT – TT-2

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	December 2023
SCALE	DRG. No.
NOT TO SCALE	LOG 2

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Photo 1: Evidence of contamination in TT-2



Photo 2: Hydrocarbon hotspot removed (TT-2)

NOTES / KEY

Date Completed: 07/12/2023
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH/PIT PHOTOGRAPHS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	December 2023
SCALE	DRG. No.
NOT TO SCALE	LOG 3

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Photo 3: Trial pit TPA



Photo 4: Trial Pit TPB

NOTES / KEY

Date Completed: 07/12/2023
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH/PIT PHOTOGRAPHS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	December 2023
SCALE	DRG. No.
NOT TO SCALE	LOG 4

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Photo 5: Trial pit TPC



Photo 6: Trial Pit TPD

NOTES / KEY

Date Completed: 07/12/2023
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH/PIT PHOTOGRAPHS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	December 2023
SCALE	DRG. No.
NOT TO SCALE	LOG 5

FWS Geological & Geo-Environmental Consultants

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APPENDIX 3

CHEMICAL ANALYSIS RESULTS

Certificate of Analysis

Certificate Number	23-26412
Issued:	
Client	FWS Consultants Unit 2 City West Business Park St Johns Road Meadowfield Industrial Estate Co Durham DH7 8ER
Our Reference	23-26412
Client Reference	8190
Order No	2023/6644
Contract Title	Water's Edge, Whitehaven
Description	6 Soil samples, 2 Leachate samples.
Date Received	09-Nov-23
Date Started	09-Nov-23
Date Completed	22-Nov-23
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By [redacted]

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 23-26412
Client Ref 8190
Contract Title Water's Edge, Whitehaven

			Lab No	2260030	2260031	2260032	2260033	2260034	2260035
			.Sample ID	HOTSPOT BASE	HOTSPOT STOCKPILE 1	HOTSPOT STOCKPILE 2	HOTSPOT STOCKPILE 3	HITSPOT WEST	HOTSPOT EAST
			Depth						
			Other ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023
			Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg						11
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg						0.6
Cadmium	DETSC 2301#	0.1	mg/kg						< 0.1
Chromium	DETSC 2301#	0.15	mg/kg						14
Chromium, Hexavalent	DETSC 2204*	1	mg/kg						< 1.0
Copper	DETSC 2301#	0.2	mg/kg						17
Lead	DETSC 2301#	0.3	mg/kg						11
Mercury	DETSC 2325#	0.05	mg/kg						0.10
Nickel	DETSC 2301#	1	mg/kg						6.2
Selenium	DETSC 2301#	0.5	mg/kg						< 0.5
Zinc	DETSC 2301#	1	mg/kg						29
Inorganics									
pH	DETSC 2008#		pH						7.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg						0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg						< 0.1
Organic matter	DETSC 2002#	0.1	%						0.3
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l						30
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l						460
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg						957
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1200	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	1200	< 10	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	1200	< 10	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis
Soil Samples

Our Ref 23-26412
Client Ref 8190
Contract Title Water's Edge, Whitehaven

	Lab No	2260030	2260031	2260032	2260033	2260034	2260035
	.Sample ID	HOTSPOT BASE	HOTSPOT STOCKPILE 1	HOTSPOT STOCKPILE 2	HOTSPOT STOCKPILE 3	HITSPOT WEST	HOTSPOT EAST
	Depth						
	Other ID						
	Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampling Date	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023
	Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.10	< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg						< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg						< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg						< 0.03
Fluorene	DETSC 3303	0.03	mg/kg						< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg						< 0.03
Anthracene	DETSC 3303	0.03	mg/kg						< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg						< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg						< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg						< 0.03
Chrysene	DETSC 3303	0.03	mg/kg						< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg						< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg						< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg						< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg						< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg						< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg						< 0.03
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	0.4	
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	0.4	< 0.1	
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.4	< 0.1	< 0.1	< 0.1	
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1	0.2	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg						< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg						0.3

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-26412
Client Ref 8190
Contract Title Water's Edge, Whitehaven
Sample Id HOTSPOT EAST

Sample Numbers 2260035 2260036 2260037
Date Analysed 22/11/2023

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	0.7	3	5	6
DETSC 2003# Loss On Ignition	%	3.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	7.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg		WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
	2:1	8:1	LS2	LS10			
DETSC 2306 Arsenic as As	3.3	1.5	0.007	0.018	0.5	2	25
DETSC 2306 Barium as Ba	6.9	14	< 0.02	0.13	20	100	300
DETSC 2306 Cadmium as Cd	0.062	0.13	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.5	1.3	< 0.02	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.2	3.8	0.014	0.044	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	0.027	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	1.8	< 1.1	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	28	27	0.06	0.27	0.4	10	40
DETSC 2306 Lead as Pb	6.8	2.9	0.01	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	0.34	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.63	0.5	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	7.8	14	0.016	0.128	4	50	200
DETSC 2055 Chloride as Cl	5700	1600	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	130	170	0.26	1.63	10	150	500
DETSC 2055 Sulphate as SO4	9500	27000	< 20	237.3	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	51000	29000	102	331.1	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	260000	11000	520	575.1	500	800	1000

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

Additional Information

DETSC 2008 pH	6.7	6.7
DETSC 2009 Conductivity uS/cm	72.6	42.1
* Temperature*	17.0	17.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.112

Stage 1

Volume of Leachant L2*	0.197
Volume of Eluate VE1*	0.21

Stage 2

Volume of Leachant L8*	0.899
Volume of Eluate VE2*	0.176

Disclaimer: *The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*
** DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.*

Summary of Asbestos Analysis
Soil Samples

Our Ref 23-26412
Client Ref 8190
Contract Title Water's Edge, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2260035	HOTSPOT EAST	SOIL	NAD	none	Ben Rose

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

Information in Support of the Analytical Results

Our Ref 23-26412
Client Ref 8190
Contract Water's Edge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2260030	HOTSPOT BASE SOIL	07/11/23	GJ 250ml, PT 1L		BTEX / C5-C10
2260031	HOTSPOT STOCKPILE 1 SOIL	07/11/23	GJ 250ml, PT 1L		BTEX / C5-C10
2260032	HOTSPOT STOCKPILE 2 SOIL	07/11/23	GJ 250ml, PT 1L		BTEX / C5-C10
2260033	HOTSPOT STOCKPILE 3 SOIL	07/11/23	GJ 250ml, PT 1L		BTEX / C5-C10
2260034	HITSPOT WEST SOIL	07/11/23	GJ 250ml, PT 1L		BTEX / C5-C10
2260035	HOTSPOT EAST SOIL	07/11/23	GJ 250ml, PT 1L		BTEX / C5-C10
2260036	HOTSPOT EAST LEACHATE	07/11/23	GJ 250ml, PT 1L		
2260037	HOTSPOT EAST LEACHATE	07/11/23	GJ 250ml, PT 1L		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

End of Report

Certificate of Analysis

Certificate Number	23-27553
Issued:	
Client	FWS Consultants Unit 2 City West Business Park St Johns Road Meadowfield Industrial Estate Co Durham DH7 8ER
Our Reference	23-27553
Client Reference	8190
Order No	2023/6644
Contract Title	Water's Edge, Whitehaven
Description	1 Soil sample, 2 Leachate prepared by DETS samples.
Date Received	22-Nov-23
Date Started	22-Nov-23
Date Completed	05-Dec-23
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By [redacted]

Kirk Bridgewood
General Manager

ilac-MRA

UKAS TESTING
2139

Summary of Chemical Analysis
Soil Samples

Our Ref 23-27553
Client Ref 8190
Contract Title Water's Edge, Whitehaven

Lab No	2266422
.Sample ID	HOTSPOT STOCKPILE 3
Depth	
Other ID	
Sample Type	SOIL
Sampling Date	07/11/2023
Sampling Time	n/s

Test	Method	LOD	Units	
Metals				
Arsenic	DETSC 2301#	0.2	mg/kg	5.2
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.0
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	6.4
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	9.9
Lead	DETSC 2301#	0.3	mg/kg	14
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Nickel	DETSC 2301#	1	mg/kg	6.6
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5
Zinc	DETSC 2301#	1	mg/kg	130
Inorganics				
pH	DETSC 2008#		pH	10.6
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Organic matter	DETSC 2002#	0.1	%	1.5
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l	20
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	1100
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	3720
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis
Soil Samples

Our Ref 23-27553
Client Ref 8190
Contract Title Water's Edge, Whitehaven

Lab No	2266422
	HOTSPOT STOCKPILE
.Sample ID	3
Depth	
Other ID	
Sample Type	SOIL
Sampling Date	07/11/2023
Sampling Time	n/s

Test	Method	LOD	Units	
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01
PAHs				
Naphthalene	DETSC 3303#	0.03	mg/kg	0.05
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.39
Fluorene	DETSC 3303	0.03	mg/kg	0.35
Phenanthrene	DETSC 3303#	0.03	mg/kg	3.1
Anthracene	DETSC 3303	0.03	mg/kg	0.82
Fluoranthene	DETSC 3303#	0.03	mg/kg	5.4
Pyrene	DETSC 3303#	0.03	mg/kg	4.4
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	2.4
Chrysene	DETSC 3303	0.03	mg/kg	1.6
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	2.4
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.83
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	2.0
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.51
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.18
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.56
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	25
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 23-27553
Client Ref 8190
Contract Title Water's Edge, Whitehaven
Sample Id HOTSPOT STOCKPILE 3

Sample Numbers 2266422 2266423 2266424
Date Analysed 04/12/2023

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	3.3	3	5	6
DETSC 2003# Loss On Ignition	%	5.2	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311# TPH (C10 - C40)	mg/kg	310.0	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	25.0	100	n/a	n/a
DETSC 2008# pH	pH Units	10.6	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg		WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
	2:1	8:1	LS2	LS10			
DETSC 2306 Arsenic as As	0.51	1	< 0.002	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	28	12	0.06	0.15	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.9	0.41	< 0.02	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	11	2.4	0.022	0.039	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	2.6	< 1.1	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	4.5	0.64	< 0.02	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.14	0.44	< 0.01	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.78	0.59	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.49	< 0.25	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 1.3	< 0.002	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	8500	1000	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	130	< 100	0.26	0.22	10	150	500
DETSC 2055 Sulphate as SO4	41000	14000	82	186.1	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	230000	81000	460	1064.3	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2033* Dissolved Organic Carbon	8000	3300	16	< 50	500	800	1000

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

Additional Information

DETSC 2008 pH	11.0	10.3
DETSC 2009 Conductivity uS/cm	324.0	116.0
* Temperature*	17.0	16.0

Mass of Sample Kg*	0.130
Mass of dry Sample Kg*	0.117

Stage 1

Volume of Leachant L2*	0.222
Volume of Eluate VE1*	0.2

Stage 2

Volume of Leachant L8*	0.937
Volume of Eluate VE2*	0.88

Disclaimer: *The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*
** DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.*

Summary of Asbestos Analysis
Soil Samples

Our Ref 23-27553
Client Ref 8190
Contract Title Water's Edge, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2266422	HOTSPOT STOCKPILE 3	SOIL	NAD	none	Robertas Ciparis

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

Information in Support of the Analytical Results

Our Ref 23-27553
Client Ref 8190
Contract Water's Edge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2266422	HOTSPOT STOCKPILE 3 SOIL	07/11/23	GJ 250ml, PT 1L	Aliphatics/Aromatics (14 days), BTEX / C5-C10 (14 days), Naphthalene (14 days), PAH FID (14 days), PAH MS (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days), EPH/TPH (14 days)	BTEX / C5-C10
2266423	HOTSPOT STOCKPILE 3 LEACHATE	07/11/23	GJ 250ml, PT 1L		
2266424	HOTSPOT STOCKPILE 3 LEACHATE	07/11/23	GJ 250ml, PT 1L		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

End of Report

Certificate of Analysis

Certificate Number	23-28134
Issued:	
Client	FWS Consultants Unit 2 City West Business Park St Johns Road Meadowfield Industrial Estate Co Durham DH7 8ER
Our Reference	23-28134
Client Reference	8190
Order No	2023/6716
Contract Title	WATERS EDGE, WHITEHAVEN
Description	One Soil sample.
Date Received	29-Nov-23
Date Started	29-Nov-23
Date Completed	14-Dec-23
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By [redacted]

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 23-28134
Client Ref 8190
Contract Title WATERS EDGE, WHITEHAVEN

Lab No	2269701
.Sample ID	ROAD 6F2
Depth	
Other ID	
Sample Type	SOIL
Sampling Date	07/11/2023
Sampling Time	n/s

Test	Method	LOD	Units	
Metals				
Arsenic	DETSC 2301#	0.2	mg/kg	15
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.4
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	21
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	17
Lead	DETSC 2301#	0.3	mg/kg	24
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05
Nickel	DETSC 2301#	1	mg/kg	22
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5
Zinc	DETSC 2301#	1	mg/kg	48
Inorganics				
pH	DETSC 2008#		pH	11.8
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1
Organic matter	DETSC 2002#	0.1	%	0.8
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l	28
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	160
Sulphate as SO4, Total	DETSC 2321#	100	mg/kg	3160
Petroleum Hydrocarbons				
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis
Soil Samples

Our Ref 23-28134
Client Ref 8190
Contract Title WATERS EDGE, WHITEHAVEN

Lab No	2269701
.Sample ID	ROAD 6F2
Depth	
Other ID	
Sample Type	SOIL
Sampling Date	07/11/2023
Sampling Time	n/s

Test	Method	LOD	Units	
PAHs				
Naphthalene	DETSC 3301	0.1	mg/kg	0.4
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	1.5
Fluorene	DETSC 3301	0.1	mg/kg	2.0
Phenanthrene	DETSC 3301	0.1	mg/kg	9.6
Anthracene	DETSC 3301	0.1	mg/kg	3.4
Fluoranthene	DETSC 3301	0.1	mg/kg	14
Pyrene	DETSC 3301	0.1	mg/kg	11
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	6.8
Chrysene	DETSC 3301	0.1	mg/kg	6.5
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	4.2
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	2.8
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	6.5
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	3.7
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	0.9
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	3.4
PAH 16 Total	DETSC 3301	1.6	mg/kg	77
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Asbestos Analysis
Soil Samples

Our Ref 23-28134
Client Ref 8190
Contract Title WATERS EDGE, WHITEHAVEN

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2269701	ROAD 6F2	SOIL	NAD	none	Ben Barsby

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

Information in Support of the Analytical Results

Our Ref 23-28134
Client Ref 8190
Contract WATERS EDGE, WHITEHAVEN

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2269701	ROAD 6F2 SOIL	07/11/23	GJ 250ml, PT 1L	Aliphatics/Aromatics (14 days), BTEX / C5-C10 (14 days), Naphthalene (14 days), PAH FID (14 days), pH + Conductivity (7 days), Cyanide/Mono pHoh (14 days)	BTEX / C5-C10

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

End of Report

APPENDIX 4

CHEMICAL STATISTICAL ANALYSIS

Landuse	SOM%	MADE GROUND TOPSOIL				
Residential with Gardens	1					
Determinand	Units	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**
Organic matter	%		1	0	0.80	0.80
HUMAN HEALTH						
Inorganic Arsenic	mg/kg	37	1	0	15.00	15.00
Boron	mg/kg	290	1	0	0.40	0.40
Cadmium	mg/kg	11	1	0	0.05	0.05
Chromium III	mg/kg	910	1	0	21.00	21.00
Chromium VI	mg/kg	6	1	0	0.50	0.50
Copper	mg/kg	2400	1	0	17.00	17.00
Lead	mg/kg	200	1	0	24.00	24.00
Elemental Mercury	mg/kg	1.2	1	0	0.025	0.025
Nickel	mg/kg	180	1	0	22.00	22.00
Zinc	mg/kg	3700	1	0	48.00	48.00
Cyanide Total	mg/kg		1	0	0.050	0.050
Inorganic Cyanide	mg/kg	26.8	1	0	0.05	0.05
Aliphatic EC 5-6	mg/kg	42	1	0	0.01	0.01
Aliphatic EC >6-8	mg/kg	100	1	0	0.01	0.01
Aliphatic EC >8-10	mg/kg	27	1	0	0.01	0.01
Aliphatic EC >10-12	mg/kg	130	1	0	0.75	0.75
Aliphatic EC >12-16	mg/kg	1100	1	0	0.60	0.60
Aliphatic C16-C21	mg/kg		1	0	0.75	0.75
Aliphatic C21-C35	mg/kg		1	0	1.70	1.70
Aliphatic EC >16-35	mg/kg	65000	1	0	2.45	2.45
Aliphatic C5-C35	mg/kg		1	0	5.00	5.00
Aromatic EC 5-7 (benzene)	mg/kg	70	1	0	0.01	0.01
Aromatic EC >7-8 (toluene)	mg/kg	130	1	0	0.01	0.01
Aromatic EC >8-10	mg/kg	34	1	0	0.01	0.01
Aromatic EC >10-12	mg/kg	74	1	0	0.45	0.45
Aromatic EC >12-16	mg/kg	140	1	0	0.25	0.25
Aromatic EC >16-21	mg/kg	260	1	0	0.30	0.30
Aromatic EC >21-35	mg/kg	1100	1	0	0.70	0.70
Aromatic C5-C35	mg/kg		1	0	5.00	5.00
TPH Ali/Aro	mg/kg		1	0	5.00	5.00
Benzene	mg/kg	0.087	1	0	0.01	0.01
Ethylbenzene	mg/kg	47	1	0	0.01	0.01
Toluene	mg/kg	130	1	0	0.01	0.01
Xylenes	mg/kg	56	1	0	0.01	0.01
MTBE	mg/kg		1	0	0.01	0.01
PAHs						
Naphthalene	mg/kg	2.3	1	0	0.40	0.40
Acenaphthylene	mg/kg	170	1	0	0.05	0.05
Acenaphthene	mg/kg	210	1	0	1.50	1.50
Fluorene	mg/kg	170	1	0	2.00	2.00
Phenanthrene	mg/kg	95	1	0	9.60	9.60
Anthracene	mg/kg	2400	1	0	3.40	3.40
Fluoranthene	mg/kg	280	1	0	14.00	14.00
Pyrene	mg/kg	620	1	0	11.00	11.00
Benzo(a)anthracene	mg/kg	7.2	1	0	6.80	6.80
Chrysene	mg/kg	15	1	0	6.50	6.50
Benzo(b)fluoranthene	mg/kg	2.6	1	1	4.20	4.20
Benzo(k)fluoranthene	mg/kg	77	1	0	2.80	2.80
Benzo(a)pyrene	mg/kg	2.2	1	1	6.50	6.50
Indeno(1,2,3-c,d)pyrene	mg/kg	27	1	0	3.70	3.70
Dibenzo(a,h)anthracene	mg/kg	0.24	1	1	0.90	0.90
Benzo(g,h,i)perylene	mg/kg	320	1	0	3.40	3.40
PAH	mg/kg		1	0	77.00	77.00
Phenol	mg/kg	120	1	0	0.15	0.15

BUILDINGS AND SERVICES						
pH		5	1	0	11.80	11.80
Chloride Aqueous Extract	mg/l	100	1	0	28.00	28.00
Sulphate Aqueous Extract as SO4	mg/l	500	1	0	160.00	160.00
Total Sulphate as SO4	%		1	0	3160.00	3160.00
PLANTS						
	mg/kg		1	0	17.00	17.00
	mg/kg		1	0	22.00	22.00
	mg/kg		1	0	48.00	48.00
	mg/kg		1	0	0.40	0.40
	mg/kg		1	0	0.05	0.05
	mg/kg		1	0	1	1
	mg/kg		1	0	21.00	21.00
	mg/kg		1	0	0.025	0.025
	mg/kg		1	0	24.00	24.00
	mg/kg		1	0	15.00	15.00

Landuse	SOM%	MADE GROUND TOPSOIL					
Residential with Gardens	1						
Determinand	Units	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
Organic matter	%		1	0	1.50	1.50	1.50
HUMAN HEALTH							
Inorganic Arsenic	mg/kg	37	1	0	5.20	5.20	5.20
Boron	mg/kg	290	1	0	1.00	1.00	1.00
Cadmium	mg/kg	11	1	0	0.05	0.05	0.05
Chromium III	mg/kg	910	1	0	6.40	6.40	6.40
Chromium VI	mg/kg	6	1	0	0.50	0.50	0.50
Copper	mg/kg	2400	1	0	9.90	9.90	9.90
Lead	mg/kg	200	1	0	14.00	14.00	14.00
Elemental Mercury	mg/kg	1.2	1	0	0.025	0.025	0.025
Nickel	mg/kg	180	1	0	6.60	6.60	6.60
Zinc	mg/kg	3700	1	0	130.00	130.00	130.00
Cyanide Total	mg/kg		1	0	0.200	0.200	0.200
Inorganic Cyanide	mg/kg	26.8	1	0	0.05	0.05	0.05
Aliphatic EC 5-6	mg/kg	42	4	0	0.05	0.01	0.02
Aliphatic EC >6-8	mg/kg	100	4	0	0.05	0.01	0.02
Aliphatic EC >8-10	mg/kg	27	4	0	0.05	0.01	0.02
Aliphatic EC >10-12	mg/kg	130	4	0	0.75	0.75	0.75
Aliphatic EC >12-16	mg/kg	1100	4	0	0.60	0.60	0.60
Aliphatic C16-C21	mg/kg		4	0	0.75	0.75	0.75
Aliphatic C21-C35	mg/kg		4	0	1.70	1.70	1.70
Aliphatic EC >16-35	mg/kg	65000	4	0	2.45	2.45	2.45
Aliphatic C5-C35	mg/kg		4	0	5.00	5.00	5.00
Aromatic EC 5-7 (benzene)	mg/kg	70	4	0	0.05	0.01	0.02
Aromatic EC >7-8 (toluene)	mg/kg	130	4	0	0.05	0.01	0.02
Aromatic EC >8-10	mg/kg	34	4	0	0.05	0.01	0.02
Aromatic EC >10-12	mg/kg	74	4	0	0.45	0.45	0.45
Aromatic EC >12-16	mg/kg	140	4	1	1200.00	0.25	300.19
Aromatic EC >16-21	mg/kg	260	4	0	0.30	0.30	0.30
Aromatic EC >21-35	mg/kg	1100	4	0	0.70	0.70	0.70
Aromatic C5-C35	mg/kg		4	0	1200.00	5.00	303.75
TPH Ali/Aro	mg/kg		4	0	1200.00	5.00	303.75
Benzene	mg/kg	0.087	4	0	0.05	0.01	0.02
Ethylbenzene	mg/kg	47	4	0	0.05	0.01	0.02
Toluene	mg/kg	130	4	0	0.05	0.01	0.02
Xylenes	mg/kg	56	4	0	0.05	0.01	0.02
MTBE	mg/kg		4	0	0.05	0.01	0.02
PAHs							
Naphthalene	mg/kg	2.3	4	0	0.05	0.05	0.05
Acenaphthylene	mg/kg	170	4	0	0.05	0.02	0.04
Acenaphthene	mg/kg	210	4	0	0.40	0.05	0.22
Fluorene	mg/kg	170	4	0	0.35	0.05	0.13
Phenanthrene	mg/kg	95	4	0	3.10	0.05	0.91
Anthracene	mg/kg	2400	4	0	0.82	0.05	0.33
Fluoranthene	mg/kg	280	4	0	5.40	0.05	1.39
Pyrene	mg/kg	620	4	0	4.40	0.05	1.15
Benzo(a)anthracene	mg/kg	7.2	4	0	2.40	0.05	0.64
Chrysene	mg/kg	15	4	0	1.60	0.05	0.44
Benzo(b)fluoranthene	mg/kg	2.6	4	0	2.40	0.05	0.64
Benzo(k)fluoranthene	mg/kg	77	4	0	0.83	0.05	0.25
Benzo(a)pyrene	mg/kg	2.2	4	0	2.00	0.05	0.54
Indeno(1,2,3-c,d)pyrene	mg/kg	27	4	0	0.51	0.05	0.17
Dibenzo(a,h)anthracene	mg/kg	0.24	4	0	0.18	0.05	0.08
Benzo(g,h,i)perylene	mg/kg	320	4	0	0.56	0.05	0.18
PAH	mg/kg		1	0	25.00	25.00	25.00
Phenol	mg/kg	120	4	0	0.80	0.15	0.64

BUILDINGS AND SERVICES							
pH		5	1	0	10.60	10.60	10.60
Chloride Aqueous Extract	mg/l	100	1	0	20.00	20.00	20.00
Sulphate Aqueous Extract as SO4	mg/l	500	1	1	1100.00	1100.00	1100.00
Total Sulphate as SO4	%		1	0	3720.00	3720.00	3720.00
PLANTS							
	mg/kg		1	0	9.90	9.90	9.90
	mg/kg		1	0	6.60	6.60	6.60
	mg/kg		1	0	130.00	130.00	130.00
	mg/kg		1	0	1.00	1.00	1.00
	mg/kg		1	0	0.05	0.05	0.05
	mg/kg		1	0	1	1	1
	mg/kg		1	0	6.40	6.40	6.40
	mg/kg		1	0	0.025	0.025	0.025
	mg/kg		1	0	14.00	14.00	14.00
	mg/kg		1	0	5.20	5.20	5.20

Landuse	SOM%	NATURAL CLAY					
Residential with Gardens	1	(HYDROCARBON HOTSPOT AREA)					
Determinand	Units	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
Organic matter	%		1	0	0.30	0.30	0.30
HUMAN HEALTH							
Inorganic Arsenic	mg/kg	37	1	0	11.00	11.00	11.00
Boron	mg/kg	290	1	0	0.60	0.60	0.60
Cadmium	mg/kg	11	1	0	0.05	0.05	0.05
Chromium III	mg/kg	910	1	0	14.00	14.00	14.00
Chromium VI	mg/kg	6	1	0	0.50	0.50	0.50
Copper	mg/kg	2400	1	0	17.00	17.00	17.00
Lead	mg/kg	200	1	0	11.00	11.00	11.00
Elemental Mercury	mg/kg	1.2	1	0	0.100	0.100	0.100
Nickel	mg/kg	180	1	0	6.20	6.20	6.20
Zinc	mg/kg	3700	1	0	29.00	29.00	29.00
Cyanide Total	mg/kg		1	0	0.200	0.200	0.200
Inorganic Cyanide	mg/kg	26.8	1	0	0.05	0.05	0.05
Aliphatic EC 5-6	mg/kg	42	3	0	0.01	0.01	0.01
Aliphatic EC >6-8	mg/kg	100	3	0	0.01	0.01	0.01
Aliphatic EC >8-10	mg/kg	27	3	0	0.01	0.01	0.01
Aliphatic EC >10-12	mg/kg	130	3	0	0.75	0.75	0.75
Aliphatic EC >12-16	mg/kg	1100	3	0	0.60	0.60	0.60
Aliphatic C16-C21	mg/kg		3	0	0.75	0.75	0.75
Aliphatic C21-C35	mg/kg		3	0	1.70	1.70	1.70
Aliphatic EC >16-35	mg/kg	65000	3	0	2.45	2.45	2.45
Aliphatic C5-C35	mg/kg		3	0	5.00	5.00	5.00
Aromatic EC 5-7 (benzene)	mg/kg	70	3	0	0.01	0.01	0.01
Aromatic EC >7-8 (toluene)	mg/kg	130	3	0	0.01	0.01	0.01
Aromatic EC >8-10	mg/kg	34	3	0	0.01	0.01	0.01
Aromatic EC >10-12	mg/kg	74	3	0	0.45	0.45	0.45
Aromatic EC >12-16	mg/kg	140	3	0	0.25	0.25	0.25
Aromatic EC >16-21	mg/kg	260	3	0	0.30	0.30	0.30
Aromatic EC >21-35	mg/kg	1100	3	0	0.70	0.70	0.70
Aromatic C5-C35	mg/kg		3	0	5.00	5.00	5.00
TPH Ali/Aro	mg/kg		3	0	5.00	5.00	5.00
Benzene	mg/kg	0.087	3	0	0.01	0.01	0.01
Ethylbenzene	mg/kg	47	3	0	0.01	0.01	0.01
Toluene	mg/kg	130	3	0	0.01	0.01	0.01
Xylenes	mg/kg	56	3	0	0.01	0.01	0.01
MTBE	mg/kg		3	0	0.01	0.01	0.01
PAHs							
Naphthalene	mg/kg	2.3	3	0	0.05	0.02	0.04
Acenaphthylene	mg/kg	170	3	0	0.05	0.02	0.04
Acenaphthene	mg/kg	210	3	0	0.40	0.02	0.16
Fluorene	mg/kg	170	3	0	0.05	0.02	0.04
Phenanthrene	mg/kg	95	3	0	0.05	0.02	0.04
Anthracene	mg/kg	2400	3	0	0.05	0.02	0.04
Fluoranthene	mg/kg	280	3	0	0.05	0.02	0.04
Pyrene	mg/kg	620	3	0	0.20	0.02	0.09
Benzo(a)anthracene	mg/kg	7.2	3	0	0.05	0.02	0.04
Chrysene	mg/kg	15	3	0	0.05	0.02	0.04
Benzo(b)fluoranthene	mg/kg	2.6	3	0	0.05	0.02	0.04
Benzo(k)fluoranthene	mg/kg	77	3	0	0.05	0.02	0.04
Benzo(a)pyrene	mg/kg	2.2	3	0	0.05	0.02	0.04
Indeno(1,2,3-c,d)pyrene	mg/kg	27	3	0	0.05	0.02	0.04
Dibenzo(a,h)anthracene	mg/kg	0.24	3	0	0.05	0.02	0.04
Benzo(g,h,i)perylene	mg/kg	320	3	0	0.05	0.02	0.04
PAH	mg/kg		3	0	0.80	0.05	0.55
Phenol	mg/kg	120	1	0	0.30	0.30	0.30

BUILDINGS AND SERVICES							
pH		5	1	0	7.50	7.50	7.50
Chloride Aqueous Extract	mg/l	100	1	0	30.00	30.00	30.00
Sulphate Aqueous Extract as SO4	mg/l	500	1	0	460.00	460.00	460.00
Total Sulphate as SO4	%		1	0	957.00	957.00	957.00
PLANTS							
	mg/kg		1	0	17.00	17.00	17.00
	mg/kg		1	0	6.20	6.20	6.20
	mg/kg		1	0	29.00	29.00	29.00
	mg/kg		1	0	0.60	0.60	0.60
	mg/kg		1	0	0.05	0.05	0.05
	mg/kg		1	0	1	1	1
	mg/kg		1	0	14.00	14.00	14.00
	mg/kg		1	0	0.100	0.100	0.100
	mg/kg		1	0	11.00	11.00	11.00
	mg/kg		1	0	11.00	11.00	11.00

APPENDIX 5

HAZWASTE ONLINE

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

3NCK0-4AGOE-BXBYT

Job name

Water's Edge, Whitehaven

Description/Comments

Project

8190

Site

Water's Edge

Classified by

Name:
Andrew Robinson
Date:
05 Dec 2023 10:14 GMT
Telephone:
01388 420633

Company:
FWS Consultants Limited
Unit 2 City West Business Park
St Johns Road
Durham
DH7 8ER

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Purpose of classification

7 - Disposal of Waste

Address of the waste

Gleesons, High Road, Whitehaven **Post Code** CA28 9PG

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Redevelopment of chemical plant to housing

Description of the specific process, sub-process and/or activity that created the waste

Waste created from excavation works on site

Description of the waste

Made Ground in stockpile

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	HOTSPOT STOCKPILE 3		Non Hazardous		3

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Andrew Robinson

Created date: 05 Dec 2023 10:14 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	5
Appendix B: Rationale for selection of metal species	6
Appendix C: Version	7

Classification of sample: HOTSPOT STOCKPILE 3

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HOTSPOT STOCKPILE 3

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.2 mg/kg	1.32	6.866 mg/kg	0.000687 %		
2	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.4 mg/kg	1.462	9.354 mg/kg	0.000935 %		
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.9 mg/kg	1.126	11.146 mg/kg	0.00111 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14 mg/kg	1.56	21.837 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.6 mg/kg	2.976	19.643 mg/kg	0.00196 %		
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		130 mg/kg	2.774	360.639 mg/kg	0.0361 %		
12	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
13	confirm TPH has NOT arisen from diesel or petrol					☑					
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
18		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
20		pH				10.6	pH		10.6	pH	10.6 pH		
				PH									
21		naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			201-469-6	83-32-9									
24		fluorene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
			201-695-5	86-73-7									
25		phenanthrene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
			201-581-5	85-01-8									
26		anthracene				0.82	mg/kg		0.82	mg/kg	0.000082 %		
			204-371-1	120-12-7									
27		fluoranthene				5.4	mg/kg		5.4	mg/kg	0.00054 %		
			205-912-4	206-44-0									
28		pyrene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
			204-927-3	129-00-0									
29		benzo[a]anthracene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.83	mg/kg		0.83	mg/kg	0.000083 %		
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		2	mg/kg	0.0002 %		
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				0.56	mg/kg		0.56	mg/kg	0.000056 %		
			205-883-8	191-24-2									
37		phenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0464 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds.

boron {diboron trioxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass.

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight.

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide].

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2023.332.5826.10798 (28 Nov 2023)
HazWasteOnline Database: 2023.332.5826.10798 (28 Nov 2023)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023

APPENDIX 6

NOTES ON LIMITATIONS

NOTES ON LIMITATIONS

1 FWS Consultants Ltd ("FWS") has prepared this report solely for the use of the client and/or his agent (the "Client") on the basis of exchange(s) of written proposals and instructions, and FWS accepts no responsibility or liability:-

a) for use of this report by any party other than the person for whom it was commissioned, or;

b) for the consequences of the report being used for any purpose other than that for which FWS was instructed to prepare it.

Should any third party wish to use or rely upon the contents of the report, written approval from FWS must be sought.

2 All information supplied by the Client, the Client's staff and professional advisers, local authorities, other statutory bodies, investigation agencies and publicly accessible databases, shall be provided to FWS in writing, and is accepted as being correct unless otherwise specified in writing by the discloser of the information.

3 The conclusions and recommendations in this report represent the professional opinions of FWS derived from currently accepted industry practices, and through the exercising of reasonable skill and care to be expected of a professional geosciences and environmental consultancy of similar size and experience. The assessments and judgments given in this report are directed by and limited to both the finite data on which they are based and the proposed works to which they are addressed.

4 Environmental and geotechnical desk studies comprise a study of available information obtained from various identified sources, authorities and parties. The information reviewed cannot be exhaustive and has been accepted in good faith as providing representative and true data pertaining to site conditions. For clarity, no independent verification of this data is carried out by FWS and it is accepted at face value. Any identified risks in desk study reports are perceived risks based on the information available at the time. Actual risks can only be assessed after carrying out a thorough physical investigation of the site that serves to validate such identified risks.

5 Data acquisition during site investigations is subject to the limitations of the methods of investigation used, site conditions and access constraints. Exploratory holes undertaken during fieldwork, particularly boreholes and/or trial pits, investigate a small volume of ground in relation to the size of the site and thus can only provide an indication of site conditions. The opinions provided and recommendations given in this report are based on the desk study information and ground conditions apparent at the site of each of the exploratory holes. There may be ground conditions elsewhere onsite that have not been disclosed by the investigation and which therefore have not been taken into account in this report. FWS will take all due care and make commentary on the adequacy of data collection and therefore the ability to highlight the presence or otherwise of exceptional conditions.

6 Owing to the natural variation of the systems that are being investigated, and the anthropological impact similarly changing through time, the findings and opinions in this report are relevant to the dates of the site works and should not be relied upon to represent conditions after a reasonable passing of time. Site conditions will change over time due to natural variations and human activities. The comments made on groundwater, surface water and soil gas conditions are based on observations made at the time that the site work was carried out. It should be noted that these conditions will vary owing to seasonal, tidal and meteorological effects. Variation in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, or subsequent developments or activities on the site or adjacent area.

7 The scope of the investigation, as agreed between FWS and the Client, was undertaken based on the specific development proposals of the Client and may be inappropriate to another form of development or scheme.

8 The opinions expressed in this report regarding contamination, geotechnical and/or waste assessments are based on simple statistical analysis and comparison with available guidance values. No liability can be accepted for the retrospective effects of any changes or amendments to these values.

ADDITIONAL GROUND INVESTIGATION AND HOTSPOT DELINAEATION NEAR PLOT 26 OF RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN

8190OR18/March 2024

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PROJECT NUMBER	8190	
PROJECT TITLE	Water's Edge, Whitehaven	
CLIENT	Gleeson Homes Cumbria Rural Enterprise Centre Redhills Penrith Cumbria CA11 0DT	
REPORT TITLE	Additional Ground Investigation and Hotspot Delineation Near Plot 26 of Residential Development on Land at Water's Edge, Whitehaven	
REPORT REFERENCE	8190OR18	
REVISION	**Date**	**Checked**
Rev00	22/03/2024	ML

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ADDITIONAL GROUND INVESTIGATION AND HOTSPOT DELINAEATION NEAR PLOT 26 OF RESIDENTIAL DEVELOPMENT ON LAND AT WATER'S EDGE, WHITEHAVEN

1 INTRODUCTION

1.1 General Background

FWS Consultants Ltd (FWS) was asked to investigate a potential source of unrecorded contamination on land at Water's Edge, Whitehaven (the 'Site') for Gleeson Homes (the 'Client'). The site location is shown on the Client's Site Plan, Appendix 1.2.

On the 23 February 2024, Gleeson Homes informed FWS of a potential contamination hotspot associated with a relic buried pipe which was exposed during the foundation works of Plot 26 (Drawing BP001, Appendix 1.2). On the 26 February 2024, FWS attended site to investigate and delineate the contamination hotspot and the results of the findings are presented in this report below.

1.2 Objectives

The objectives of the ground investigation were to:

To prove the extent of the contaminated hotspot.
To give information on the chemical quality of the contaminated soils.
To prove all contaminated materials have been removed.

1.3 Scope

The ground investigation was carried out in accordance with the Reclamation Method Statement (Ref. 6) to provide information on ground conditions for the proposed development. The specification requirements were:-

Excavation of trenches to locate and delineate the full extent of the contamination hotspot in the vicinity of Plot 26;
Chemical testing of the contaminated material and surrounding material.

2 DEVELOPMENT PROPOSALS

The proposed development is for a residential development comprising 42 No. detached and semi-detached properties with domestic gardens and associated road infrastructure. The development layout as proposed is shown in Drawing BP001, Appendix 1.2.

3 SITE DESCRIPTION

3.1 Location and Site Features

The 1.4 ha site at National Grid Reference 296680E, 516290N is located off High Road at Water's Edge, Whitehaven, as shown on the Client's Site Plan, Appendix 1.2.

The eastern half of the site was currently under development with residential properties being completed along the eastern boundary and construction works ongoing in the remainder of the site. The site compound was in the northwestern corner of the site.

The site is bordered by residential development to the north and east with derelict open space to the south and west.

In the area of the investigation (Plot 26), the concrete foundation footings were already installed and were placed within the underlying natural clays, as shown in Drawing 8190OD11, Appendix 1.1.

3.2 Topography

The site is generally flat-lying at an elevation of around 95 m AOD and is surfaced by demolition fill with localised hardstanding in the southeast. At the time of the works (26 February 2024), construction activities were ongoing throughout the central and western area of the site.

4 GROUND INVESTIGATION

4.1 General

The ground investigation, which was supervised and coordinated by FWS, was undertaken on 26 February 2024. A location plan of the completed exploratory hole positions is presented in Drawing 8190OD11 (Appendix 1.1).

All available services and utility plans were reviewed prior to confirming the locations of the exploratory holes.

Each exploratory hole location was checked for buried services using a Cable Avoidance Tool (CAT) by FWS prior to commencing the intrusive investigation. Inspection pits were then dug using a tracked excavator.

The fieldwork and investigation was generally carried out in accordance with the principles of BS 10175:2011+A1:2013 (Ref. 1), BS 5930:2015 (Ref. 2) and BS EN ISO 14688 (Ref. 3), and comprised:-

One trial pit (P26A) to a depth of up to 1.4 m bgl to locate the source of contamination and enable the made ground to be examined along the eastern side of Plot 26.
One trial pit (P26B) to a depth of up to 0.70 m bgl to locate the source of contamination and enable the made ground to be examined within Plot 26.

A Schedule of Exploratory Holes including survey details, final depths and testing information is provided in Appendix 2. The descriptions of the strata encountered are provided in the trial pit logs presented in Appendices 2.

FWS scheduled the chemical testing, and the samples were transported to DETS for analysis. The analytical certificates are presented in Appendix 3.

The FWS engineer was onsite full time during the site works in order to view the site, locate the exploratory holes, coordinate the fieldwork, log the exploratory holes and undertake the sampling.

4.2 Constraints to Ground investigation

The full extent of the contamination hotspot could not be investigated on this visit, as detailed below:

At the time of investigation, concrete foundation footings were already installed across Plot 26, limiting the extent of the works (Drawing 8190OD11, Appendix 1.1).
As specified by Gleeson Homes, due to limited storage space available on site, the bulk of the contaminated material in the east of Plot 26 (P26A) could not be removed and remained in-situ. Gleeson Homes stated that a second visit would be organised at a later date to supervise the removal of the contaminated material.

4.3 Laboratory Testing

4.3.1 Chemical Analysis

As summarised below, chemical testing was carried out on selected soil samples as requested and agreed by the Client and the results are included in Appendix 3.

The following chemical soil analysis has been carried out by a MCERTS/UKAS accredited laboratory:-

Made ground samples (from excavated contaminated material in P26A taken along the pipe alignment) – Two samples of visually and olfactory contaminated mixed granular and cohesive made ground for TPH/CWG + BTEX/MTBE suite, PAH (16 priority), VOCs and SVOCs suites.
One made ground sample (from insitu 'clean' material within P26B) – One sample of cohesive made ground following removal of contamination at a depth of 0.20 m bgl for TPH/CWG + BTEX/MTBE suite, PAH (16 priority), VOCs and SVOCs suites.
One natural cohesive sample (insitu/base of excavation within P26B) – One sample of natural cohesive soil following removal of contamination at a depth of 0.70 m bgl for TPH/CWG + BTEX/MTBE suite, PAH (16 priority), VOCs and SVOCs suites.

Due to the previous foundation excavations around P26B, only a small volume of remaining insitu made ground material remained along the western edge following removal of the contaminated material. As such, only one sample of the remaining made ground within the side wall of the excavation could be taken for validation (other walls comprising the foundations).

4.3.2 Quality Assurance and Quality Control

Quality assurance and control of the investigation was implemented in accordance with the following standards and industry guidance:

Site Investigation Protocols the fieldwork was carried out following the principles of BS 10175:2011+A1:2013 (Ref. 1), BS5930:2015+A1:2020 (Ref. 2) and BS EN ISO 14688 (Ref. 3).
Sampling Protocols were carried out following the principles of BS 5930:2015+A1:2020 (Ref. 2).
The environmental testing was undertaken by Derwentside Environmental Testing Services (DETS), a MCERTS/UKAS accredited laboratory.

5 RESULTS OF SITE INVESTIGATION

5.1 General

The strata descriptions are compiled from an examination of the disturbed samples.

5.2 Ground Conditions

5.2.1 Hardstanding and Below Ground Structures

Concrete foundation footings was present in the area of investigation (Plot 26).

Topsoil

Topsoil was not encountered during the ground investigation.

5.2.2 Made Ground

Made ground was present across the site and comprised the following principal types:

Contamination Hotspot (P26A)

Mixed granular and cohesive made ground to depths of up to 1.40 m bgl comprising sandy very gravelly clay with gravel of sandstone, brick, slag, ceramic and concrete and, slightly clayey gravel of ash. A strong solvent odour was noted throughout the made ground material.

The excavation identified a possible former pipe trench at the interface between the made ground material and natural soils where contaminated material was present, however no evidence of pipe was noted.

Due to the request of Gleeson Homes to limit the excavation in this area, as limited storage space was available on site, the full extent of the contamination hotspot could not be fully investigated. However, as no sources of contamination was reported during the construction of the road to the north of Plot 26, it is anticipated that the hotspot found at Plot 26 is only localised and not widespread. The full extent of the contamination hotspot is to be investigated at a later date, when Gleeson Homes has made arrangements for storage/removal of the contaminated material.

Contamination Hotspot (P26B)

Cohesive made ground to depths of up to 0.40 m bgl comprising greyish brown sandy gravelly clay containing gravel of sandstone, mudstone, coal, brick and rootlets with medium solvent odour.

A short section of an approximately 10cm wide clay pipe was found to be present at around 0.40 m bgl at the interface between the made ground and natural soils, as shown in Drawing 8190OD11, Appendix 1.1.

Evidence of visual and olfactory signs of contamination was found in the northern side of the clay pipe within the surrounding made ground material, no evidence of contamination was noted inside the pipe.

No evidence of visual and olfactory signs of contamination was noted to the south of the pipe. The made ground material directly to the east and west of the pipe was also visually 'clean'.

Gleeson Homes did not report any evidence of contamination during the installation of concrete footings in the plot directly adjacent to the south of P26B.

Following removal of all visually contaminated material in excavation P26B, the remaining made ground material and natural clay was visually 'clean' with no evidence of gross contamination.

Inspection of Contaminated Material between P26A and P26B

The area between P26A and P26B could not be investigated due to the presence of concrete foundation footings.

Gleeson Homes reported the presence of contamination during the excavation of material for the foundation footings. The contaminated material was removed and stored in a stockpile to the south of Plot 26 (Drawing 8190OD11, Appendix 1.1).

It is understood that all evidence of contaminated material was removed in the alignment of the concrete foundation footing between P26A and P26B. The extent of the contamination was proven in P26B and remains to be delineated in P26A.

Full details are presented on the logs in Appendix 2.

5.2.3 Superficial Deposits

The superficial deposits underlying the site (where encountered in P26B) mainly consist of firm brown sandy gravelly clay with gravel of sandstone mudstone and coal from depths of between 0.4 and 0.7 m bgl.

5.2.4 Groundwater

Groundwater was not encountered during this ground investigation with the exception of wet granular material in the area of the contamination hotspot.

6 MATERIAL PROPERTIES

6.1 Chemical Properties

6.1.1 Visual/Olfactory Evidence of Contamination

Visual evidence of contamination (black stain and slight oily sheen) within granular material in the made ground was noted in trial pits P26A and P26B, associated with a distinct solvent odour.

The extent of the visually contaminated material was around 0.20 m either side of the clay pipe in P26B at a depth of around 0.40 m bgl. No significant evidence of contamination remained in P26B following removal of the contaminated material.

However, in the area of P26A, where visual and olfactory evidence of contamination appeared to extend up to 1.0 m from the alignment of the pipe, the full extent of the contamination could not be identified at the time of investigation.

6.1.2 Soils – Total Concentration/Contamination

The results of all chemical testing have been compiled into data tables, which are presented in Appendix 4. This table presents the minimum, mean and maximum concentrations of determinands for contaminants detected during the ground investigations and highlight determinands that exceed the Generic Assessment Criteria for residential housing with gardens using an average soil organic matter value of 1%.

Contamination Hotspot (P26A)

Slightly elevated concentrations of VOCs and elevated concentrations of TPH were present within the contaminated material that retained insitu, which may pose a risk of harm to human health.

The following determinands were found to be above the assessment values:

- TPH Aromatic C12-16: 1,900 mg/kg (Assessment Value: 140 mg/kg)
- TPH Aromatic C16-21: 2,500 mg/kg (Assessment Value: 260 mg/kg)
- 1,3-dichlorobenzene: 32 and 120 mg/kg (Assessment Value: 30 mg/kg)

Contamination Hotspot (P26B)

No significant concentrations of contaminants were found within the insitu made ground material and natural superficial deposits following the removal of the former pipe and localised contaminated materials, indicating that no significant signs of contamination remains and all gross contamination has been removed.

6.1.3 Gas Monitoring

During excavation of the trenches in the area of the contamination hotspot Volatile Organic Compounds (VOCs) were monitored using a photo ionization detector and the results are presented in the table below:-

Sample ID	Material	PID Value (ppm)
Plot 26 – 0.20 m	Insitu cohesive made ground within Plot 26 footprint	4.3
Plot 26 – 0.70 m	Insitu natural clay within Plot 26 footprint	32
East of Plot 26	Insitu contaminated material	50 - 60

7 CONCLUSION

Contamination Hotspot (P26A)

The full extent of the contamination in the area of P26A could not be identified. The Elevated concentrations of TPH and VOCs that have been identified within the insitu made ground material pose a risk of harm to human health, property and services, and plants within garden/landscaped areas.

As such, it is recommended that the remaining gross contamination in this area is to be fully investigated and removed prior to reinstatement of the ground levels for which a suitable clean cover system should be adopted in accordance with the Reclamation Method Statement (Ref. 4).

In addition, should any residual contamination remain, installation of a vapour proof membrane as part of the gas protection measures should be considered to mitigate any residual vapour risk to the property.

Contamination Hotspot (P26B)

Due to ongoing construction works, visually contaminated made ground has been excavated at the time of inspection as access would become limited in future visits. All visually contaminated made ground along the former pipe alignment was removed and no signs of contamination remained. The excavated material was placed in a stockpile for disposal off site at a later date.

In addition to the removal of the contaminated material, outside of contaminated material within 0.20 m of either side of the pipe, no visual signs of contamination was reported directly to the south, east and west of P26B as part of the foundation excavation works as noted by Gleeson Homes. Further contamination was only recorded further to the north within P26A area, which remains to be fully investigated.

Results of the chemical testing recorded no significant concentrations of contaminants within the wider insitu made ground and natural clay following removal of the contaminated material in P26B.

No further investigation/mitigation measures are deemed necessary for this area.



A FRY
GEO-ENVIRONMENTAL SCIENTIST



M LAKEY
DIRECTOR

8 REFERENCES

1 British Standards Institution, January 2001. BS 10175:2011, Investigation of Potentially Contaminated Sites – Code of Practice.

2 British Standards Institution, July 2015. BS 5930:2015+A1:2020, Code of Practice for Ground Investigations.

3 British Standards BS EN ISO 14688-1:2018 Geotechnical Investigation and Testing. Identification and Classification of Soil. Identification and Description.

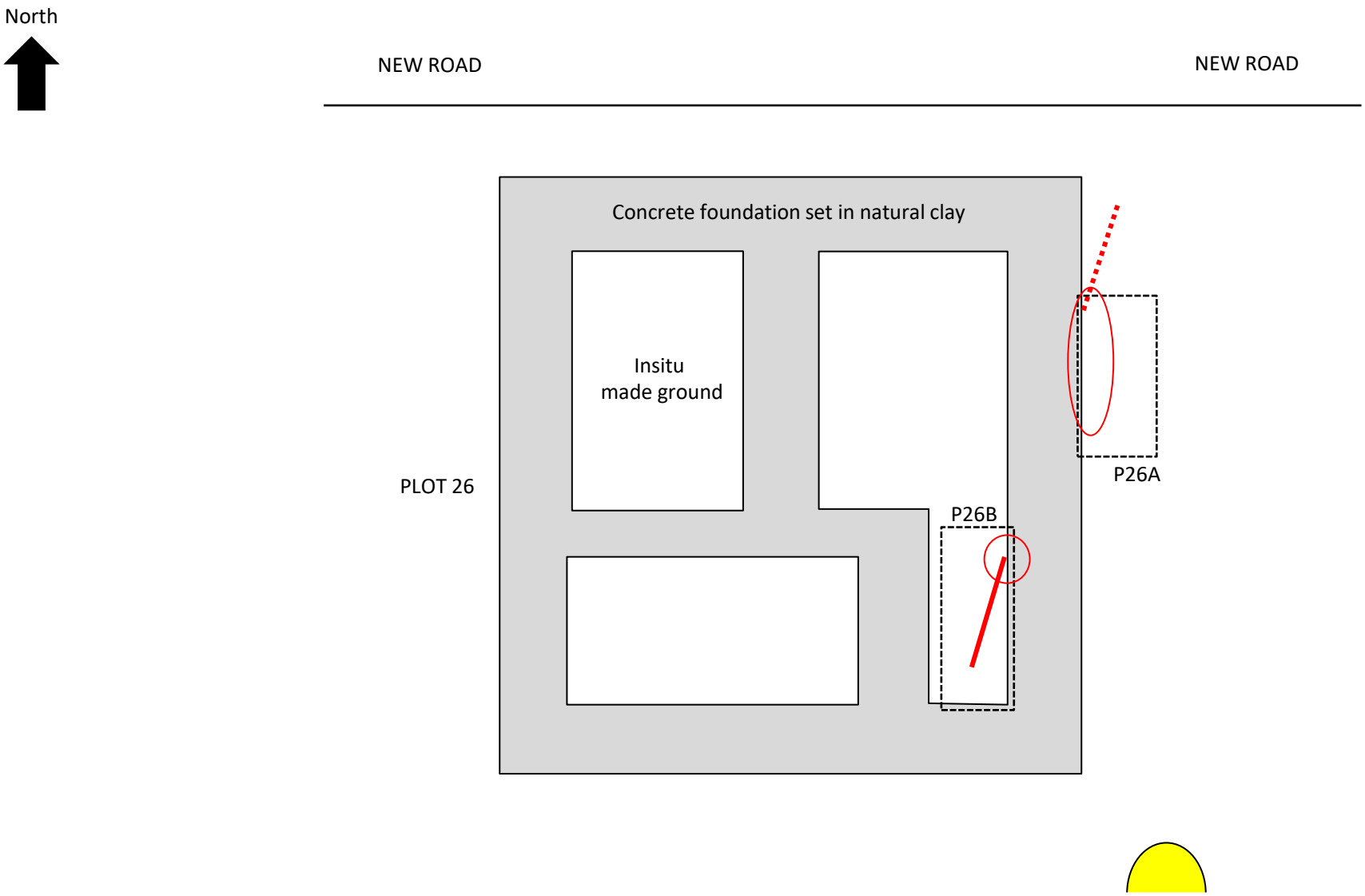
4 FWS Consultants Ltd, October 2022. Reclamation Method Statement for the Proposed Residential Development on Land at Water's Edge, Whitehaven. Reference: 8190OR04 Rev.2

APPENDIX 1

DRAWINGS

APPENDIX 1.1

FWS DRAWINGS



NOTES / KEY

Area of recorded contamination

Visual sign of contamination

Historical pipe

Excavation (Trial Pit)

Assumed alignment of historical pipe

Stockpile of contaminated material

DRAWING TITLE

SITE NOTES AND EXPLORATORY HOLE LOCATION PLAN

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	March 2024
SCALE	DRG. No.
NOT TO SCALE	8190OD11

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APPENDIX 1.2

THIRD-PARTY DRAWINGS


Promap

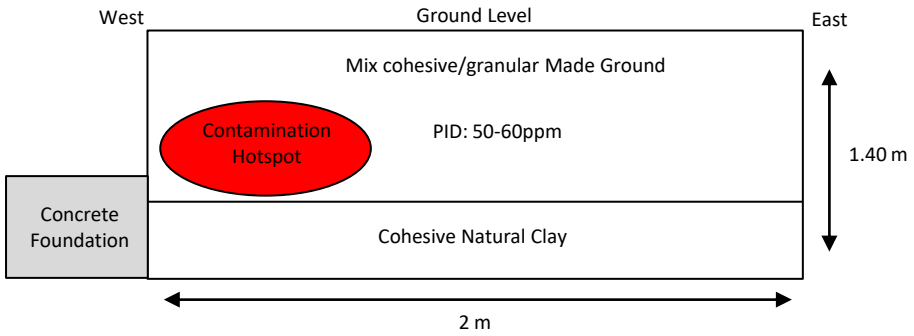
House Type	Quantity
201	3
212	1
301	9
309	5
307	4
315	4
310	6
435	6
436	4
Total#	42

ASHWOOD
DESIGN ASSOCIATES LTD

APPENDIX 2

EXPLORATORY HOLE LOGS

GENERAL CROSS SECTION OF TRENCH P26A



TP26A DETAILED LOG

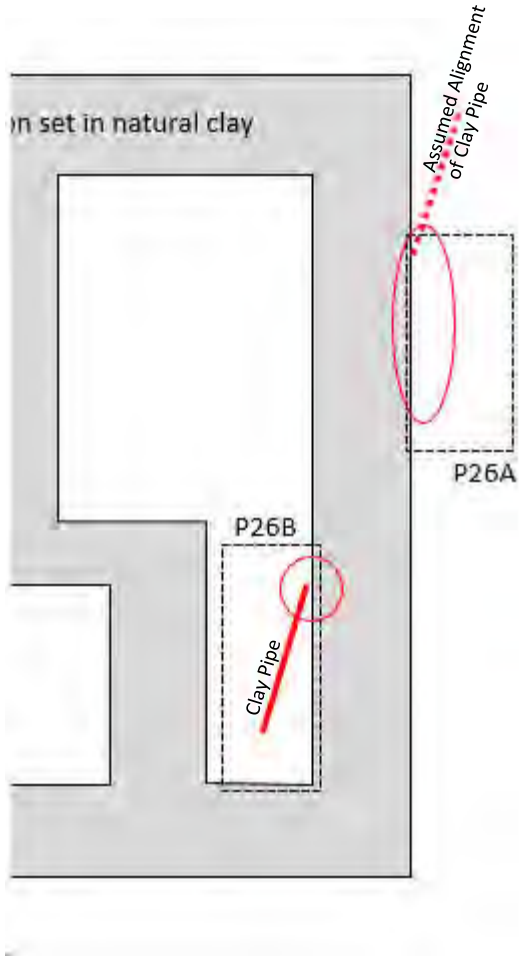
0.00 – 1.10:	MADE GROUND: Soft to firm dark grey sandy gravelly CLAY with large pockets of black stained granular material containing visual and olfactory evidence of contamination. Gravel is fine to coarse angular of sandstone mudstone, concrete, slag, ash and ceramic.
1.10 – 1.40:	Stiff brown sandy gravelly CLAY. Gravel is fine to coarse subangular of sandstone mudstone and coal
1.40:	End of excavation

TT-1 REMARKS

Strong solvent odour from 0.3 to 1.10 m bgl.
Oily staining noted between 0.4 and 1.00 m bgl.
Slight water seepage within granular pockets throughout the made ground.
2no. Samples of the contaminated material taken

PLAN VIEW OF EXCAVATIONS IN HOTSPOT AREA

(see Drawing 8190OD11 for Hole Location Plan)



NOTES / KEY

Date Completed: 26/02/2024
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH LOG IN VICINITY OF CONTAMINATION HOTSPOT – P26A

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

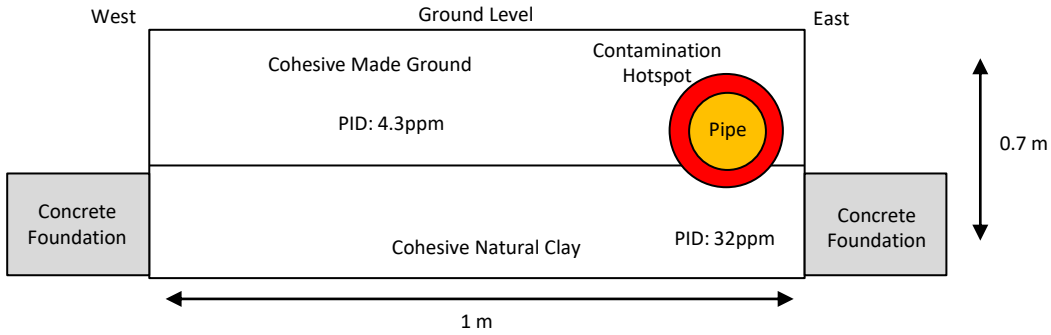
CLIENT	GLEESON HOMES CUMBRIA
STATUS	FINAL
PROJECT NUMBER	8190
DRAWN BY	AF
DATE	March 2024
SCALE	NOT TO SCALE
DRG. No.	LOG 1

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GENERAL CROSS SECTION OF TRENCH P26B



TT-B DETAILED LOG

0.00 – 0.40:	MADE GROUND: Firm greyish brown sandy gravelly CLAY with evidence of visual and olfactory signs of contamination. Gravel is fine to coarse angular of sandstone mudstone coal brick and rootlets.
0.40 – 0.70:	Firm brown sandy gravelly CLAY. Gravel is fine to coarse angular of sandstone mudstone and coal.
0.70:	End of excavation

TT-B REMARKS

Strong solvent odour at 0.40 m bgl.
Oily staining noted at 0.40 m bgl.
No evidence of groundwater noted.
A 10cm wide clay pipe was noted at 0.40 m bgl.

SAMPLES

- 1no. Sample taken at 0.20 m within the “clean” insitu made ground
- 1no. Sample taken at 0.70 m within the “clean” underlying insitu natural clay

NOTES / KEY

Date Completed: 26/02/2024
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH LOG IN VICINITY OF CONTAMINATION HOTSPOT – P26B

PROJECT TITLE

WATER’S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	March 2024
SCALE	DRG. No.
NOT TO SCALE	LOG 2

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Photo 1: Evidence of contamination in P26A



Photo 2: Contamination hotspot in P26A

NOTES / KEY

Date Completed: 26/02/2024
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH/PIT PHOTOGRAPHS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	March 2024
SCALE	DRG. No.
NOT TO SCALE	LOG 3

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Photo 3: Buried pipe in P26B



Photo 4: Exposed pipe in P26B

NOTES / KEY

Date Completed: 26/02/2024
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH/PIT PHOTOGRAPHS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
AF	March 2024
SCALE	DRG. No.
NOT TO SCALE	LOG 4

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Photo 5: Contamination removed in P26B



Photo 6: Contamination removed in P26B

NOTES / KEY

Date Completed: 26/02/2023
Plant Used: Tracked 360 Excavator

DRAWING TITLE

TRIAL TRENCH/PIT PHOTOGRAPHS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT	GLEESON HOMES CUMBRIA
STATUS	FINAL
PROJECT NUMBER	8190
DRAWN BY	AF
DATE	March 2024
SCALE	NOT TO SCALE
DRG. No.	LOG 5

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APPENDIX 3

CHEMICAL ANALYSIS RESULTS

Certificate of Analysis

Certificate Number	24-04330
Issued:	
Client	FWS Consultants Unit 2 City West Business Park St Johns Road Meadowfield Industrial Estate Co Durham DH7 8ER
Our Reference	24-04330
Client Reference ~	(not supplied)
Order No ~	2024/6904
Contract Title ~	Water's Edge, Whitehaven
Description	4 Soil samples.
Date Received	29-Feb-24
Date Started	29-Feb-24
Date Completed	13-Mar-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By [redacted]

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-04330
Client Ref ~
Contract Title ~ Water's Edge, Whitehaven

			Lab No	2306194	2306195	2306196	2306197
			Sample ID ~	PLOT 26 (OUTSIDE)	PLOT 26 (OUTSIDE)	PLOT 26 (PIPE)	PLOT 26 (PIPE)
			Depth ~			0.20	0.70
			Other ID ~	SAMPLE 1	SAMPLE 2		
			Sample Type ~	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	26/02/2024	26/02/2024	26/02/2024	26/02/2024
			Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	0.26	< 0.10	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	8.6	1.2	0.06	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	40	22	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2	85	17	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	130	18	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	83	16	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	340	73	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	0.18	3.7	0.30	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	6.0	33	3.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	69	1900	21	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	86	2500	24	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	150	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	160	4500	49	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	160	4900	120	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.10	< 0.10	< 0.01	< 0.01
PAHs							
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	0.8	25	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	6.8	59	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	1.2	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	0.2	0.4	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	3.8	9.5	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.4	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	3.4	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	0.5	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.9	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	13	99	< 1.6	< 1.6

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Summary of Chemical Analysis
Soil Samples

Our Ref 24-04330
Client Ref ~
Contract Title ~ Water's Edge, Whitehaven

				Lab No	2306194	2306195	2306196	2306197
				Sample ID ~	PLOT 26 (OUTSIDE)	PLOT 26 (OUTSIDE)	PLOT 26 (PIPE)	PLOT 26 (PIPE)
				Depth ~			0.20	0.70
				Other ID ~	SAMPLE 1	SAMPLE 2		
				Sample Type ~	SOIL	SOIL	SOIL	SOIL
				Sampling Date ~	26/02/2024	26/02/2024	26/02/2024	26/02/2024
				Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
VOCs								
Vinyl Chloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	0.02	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	28	0.68	0.58	0.04
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	0.01	< 0.01	< 0.01

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Summary of Chemical Analysis
Soil Samples

Our Ref 24-04330
Client Ref ~
Contract Title ~ Water's Edge, Whitehaven

			Lab No	2306194	2306195	2306196	2306197
			Sample ID ~	PLOT 26 (OUTSIDE)	PLOT 26 (OUTSIDE)	PLOT 26 (PIPE)	PLOT 26 (PIPE)
			Depth ~			0.20	0.70
			Other ID ~	SAMPLE 1	SAMPLE 2		
			Sample Type ~	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	26/02/2024	26/02/2024	26/02/2024	26/02/2024
			Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	0.05	0.03	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	120	32	0.24	1.6
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	15	0.64	0.03	0.27
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	710	53	2.1	16
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	0.02	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	0.52	0.15	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	0.03	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
VOC TICs - Semi Quant	DETSC 3431*			Y	Y	Y	Y
SVOCs							
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	0.6
2-Methylphenol	DETSC 3433	0.1	mg/kg	1.1	< 2.0	0.3	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	0.2	< 2.0	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	3.5	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	140	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1

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Summary of Chemical Analysis
Soil Samples

Our Ref 24-04330
Client Ref ~
Contract Title ~ Water's Edge, Whitehaven

			Lab No	2306194	2306195	2306196	2306197
			Sample ID ~	PLOT 26 (OUTSIDE)	PLOT 26 (OUTSIDE)	PLOT 26 (PIPE)	PLOT 26 (PIPE)
			Depth ~			0.20	0.70
			Other ID ~	SAMPLE 1	SAMPLE 2		
			Sample Type ~	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	26/02/2024	26/02/2024	26/02/2024	26/02/2024
			Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	4.0	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	210	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 2.0	< 0.1	< 0.1
SVOC TICs							
Benzene, (1,1,4,6,6-pentamethylheptyl)- (TIC)	DETSC 3433*		mg/kg	3.05	70.86		
Benzene, (1,1-dimethyldecyl)- (TIC)	DETSC 3433*		mg/kg	3.77			
Benzene, (1,1-dimethylnonyl)- (TIC)	DETSC 3433*		mg/kg		117.98		
Benzene, chloro- (TIC)	DETSC 3433*		mg/kg	65.93			
Blank (TIC)	DETSC 3433*		mg/kg			None	None
Diphenyl ether (TIC)	DETSC 3433*		mg/kg	2.72			
Phenol, m-tert-butyl- (TIC)	DETSC 3433*		mg/kg	1.99			
Tridecane, 2-methyl-2-phenyl- (TIC)	DETSC 3433*		mg/kg	2.19			

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Information in Support of the Analytical Results

Our Ref 24-04330
Client Ref ~
Contract ~ Water's Edge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2306194	PLOT 26 (OUTSIDE) SOIL	26/02/24	GJ 250ml, PT 1L		BTEX / C5-C10, VOC
2306195	PLOT 26 (OUTSIDE) SOIL	26/02/24	GJ 250ml, PT 1L		BTEX / C5-C10, VOC
2306196	PLOT 26 (PIPE) 0.20 SOIL	26/02/24	GJ 250ml, PT 1L		BTEX / C5-C10, VOC
2306197	PLOT 26 (PIPE) 0.70 SOIL	26/02/24	GJ 250ml, PT 1L		BTEX / C5-C10, VOC

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

End of Report

APPENDIX 4

CHEMICAL STATISTICAL ANALYSIS

Landuse	SOM%	Project No.	Project Name			Material	
Residential with Gardens	1	8190	Water's Edge, Whitehaven			Contaminated MG	
Determinand	**Units**	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
Petroleum Hydrocarbons							
Aliphatic EC 5-6	mg/kg	42	2	0	0.260	0.050	0.16
Aliphatic EC >6-8	mg/kg	100	2	0	0.050	0.050	0.05
Aliphatic EC >8-10	mg/kg	27	2	0	8.600	1.200	4.90
Aliphatic EC >10-12	mg/kg	130	2	0	40.00	0.75	20.38
Aliphatic EC >12-16	mg/kg	1100	2	0	85.00	0.60	42.80
Aliphatic C16-C21	mg/kg		2	0	130.00	0.75	65.38
Aliphatic C21-C35	mg/kg		2	0	83.00	1.70	42.35
Aliphatic EC >16-35	mg/kg	65000	2	0	213.00	2.45	107.73
Aliphatic C5-C35	mg/kg		2	0	340.00	5.00	172.50
Aromatic EC 5-7 (benzene)	mg/kg	70	2	0	0.050	0.050	0.05
Aromatic EC >7-8 (toluene)	mg/kg	130	2	0	0.050	0.050	0.05
Aromatic EC >8-10	mg/kg	34	2	0	3.700	0.180	1.94
Aromatic EC >10-12	mg/kg	74	2	0	33.00	6.00	19.50
Aromatic EC >12-16	mg/kg	140	2	1	1900.00	69.00	984.50
Aromatic EC >16-21	mg/kg	260	2	1	2500.00	86.00	1293.00
Aromatic EC >21-35	mg/kg	1100	2	0	150.00	0.70	75.35
Aromatic C5-C35	mg/kg		2	0	4500.00	160.00	2330.00
TPH Ali/Aro	mg/kg		2	0	4900.00	160.00	2530.00
Benzene	mg/kg	0.087	2	0	0.050	0.050	0.05
Ethylbenzene	mg/kg	47	2	0	0.050	0.050	0.05
Toluene	mg/kg	130	2	0	0.050	0.050	0.05
Xylenes	mg/kg	56	2	0	0.050	0.050	0.05
MTBE	mg/kg		2	0	0.050	0.050	0.05
PAHs							
Naphthalene	mg/kg	2.3	2	0	0.050	0.050	0.05
Acenaphthylene	mg/kg	170	2	0	25.000	0.800	12.90
Acenaphthene	mg/kg	210	2	0	59.000	6.800	32.90
Fluorene	mg/kg	170	2	0	1.200	0.050	0.63
Phenanthrene	mg/kg	95	2	0	0.400	0.200	0.30
Anthracene	mg/kg	2400	2	0	9.500	3.800	6.65
Fluoranthene	mg/kg	280	2	0	0.050	0.050	0.05
Pyrene	mg/kg	620	2	0	0.400	0.050	0.23
Benzo(a)anthracene	mg/kg	7.2	2	0	3.400	0.050	1.73
Chrysene	mg/kg	15	2	0	0.500	0.050	0.28
Benzo(b)fluoranthene	mg/kg	2.6	2	0	0.050	0.050	0.05
Benzo(k)fluoranthene	mg/kg	77	2	0	0.900	0.050	0.48
Benzo(a)pyrene	mg/kg	2.2	2	0	0.050	0.050	0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	27	2	0	0.050	0.050	0.05
Dibenzo(a,h)anthracene	mg/kg	0.24	2	0	0.050	0.050	0.05
Benzo(g,h,i)perylene	mg/kg	320	2	0	0.050	0.050	0.05
PAH	mg/kg		2	0	99.000	13.000	56.00
Phenol	mg/kg	120	0	0	0.000	0.000	-

Landuse	SOM%	Project No.	Project Name			Material	
Residential with Gardens	1	8190	Water's Edge, Whitehaven			Contaminated MG	
Determinand	**Units**	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
VOCs							
Vinyl Chloride	mg/kg	0.059	2	0	0.005	0.005	0.01
Chloroform	mg/kg	99	2	0	0.005	0.005	0.01
1,1,1-trichloroethane	mg/kg	660	2	0	0.005	0.005	0.01
Carbon tetrachloride	mg/kg	2.9	2	0	0.005	0.005	0.01
1,2-dichloroethane	mg/kg	0.67	2	0	0.005	0.005	0.01
Chlorobenzene	mg/kg	56	2	0	28.000	0.680	14.34
1,1,1,2-tetrachloroethane	mg/kg	110	2	0	0.005	0.005	0.01
1,3-dichlorobenzene	mg/kg	30	2	2	120.000	32.000	76.00
1,4-dichlorobenzene	mg/kg	4400	2	0	15.000	0.640	7.82
1,2-dichlorobenzene	mg/kg	2000	2	0	710.000	53.000	381.50
1,2,4-trichlorobenzene	mg/kg	220	2	0	0.520	0.150	0.34
Hexachlorobutadiene	mg/kg	31	2	0	0.005	0.005	0.01
1,2,3-trichlorobenzene	mg/kg	102	2	0	0.030	0.005	0.02
1,1-dichloroethane	mg/kg	280	2	0	0.005	0.005	0.01
1,2-dichloropropane	mg/kg	3.3	2	0	0.005	0.005	0.01
Bromodichloromethane	mg/kg	2.1	2	0	0.005	0.005	0.01
1,1,2-trichloroethane	mg/kg	94	2	0	0.005	0.005	0.01
Styrene	mg/kg	3300	2	0	0.005	0.005	0.01
Bromoform	mg/kg	760	2	0	0.005	0.005	0.01
Isopropylbenzene	mg/kg	1400	2	0	0.005	0.005	0.01
Bromobenzene	mg/kg	97	2	0	0.005	0.005	0.01
n-propylbenzene	mg/kg	4100	2	0	0.005	0.005	0.01
1,2,4-trimethylbenzene	mg/kg	42	2	0	0.005	0.005	0.01
SVOCs							
2-Chlorophenol	mg/kg	3500	2	0	1.000	0.050	0.53
2,4-Dichlorophenol	mg/kg	3500	2	0	1.000	0.050	0.53
1,2,4-Trichlorobenzene	mg/kg	220	2	0	1.000	0.200	0.60
2,4,6-Trichlorophenol	mg/kg	3500	2	0	1.000	0.050	0.53
2,3,4,6-Tetrachlorophenol	mg/kg	3500	2	0	140.000	0.050	70.03
Hexachlorobenzene	mg/kg	110vap(0.2)	2	0	1.000	0.050	0.53
Pentachlorophenol	mg/kg	400	2	0	1.000	0.050	0.53
2-Methylphenol	mg/kg	160000	2	0	1.100	1.000	1.05
3&4-Methylphenol	mg/kg	160000	2	0	1.000	0.050	0.53
2,4-Dimethylphenol	mg/kg	16000	2	0	1.000	0.050	0.53
2-Chloronaphthalene	mg/kg	390	2	0	1.000	0.050	0.53
2,4-Dinitrotoluene	mg/kg	3700	2	0	1.000	0.050	0.53
2,6-Dinitrotoluene	mg/kg	1900	2	0	1.000	0.050	0.53
Diethylphthalate	mg/kg	150000	2	0	1.000	0.050	0.53
Di-n-butylphthalate	mg/kg	150000	2	0	1.000	0.050	0.53
Butylbenzylphthalate	mg/kg	940000	2	0	1.000	0.050	0.53
Bis(2-ethylhexyl)phthalate	mg/kg	85000	2	0	1.000	0.050	0.53
Di-n-octylphthalate	mg/kg	89000	2	0	1.000	0.050	0.53

Landuse	SOM%	Project No.	Project Name			Material	
Residential with Gardens	1	8190	Water's Edge, Whitehaven			Made Ground	
Determinand	**Units**	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
Petroleum Hydrocarbons							
Aliphatic EC 5-6	mg/kg	42	1	0	0.005	0.005	0.01
Aliphatic EC >6-8	mg/kg	100	1	0	0.005	0.005	0.01
Aliphatic EC >8-10	mg/kg	27	1	0	0.060	0.060	0.06
Aliphatic EC >10-12	mg/kg	130	1	0	22.00	22.00	22.00
Aliphatic EC >12-16	mg/kg	1100	1	0	17.00	17.00	17.00
Aliphatic C16-C21	mg/kg		1	0	18.00	18.00	18.00
Aliphatic C21-C35	mg/kg		1	0	16.00	16.00	16.00
Aliphatic EC >16-35	mg/kg	65000	1	0	34.00	34.00	34.00
Aliphatic C5-C35	mg/kg		1	0	73.00	73.00	73.00
Aromatic EC 5-7 (benzene)	mg/kg	70	1	0	0.005	0.005	0.01
Aromatic EC >7-8 (toluene)	mg/kg	130	1	0	0.005	0.005	0.01
Aromatic EC >8-10	mg/kg	34	1	0	0.300	0.300	0.30
Aromatic EC >10-12	mg/kg	74	1	0	3.90	3.90	3.90
Aromatic EC >12-16	mg/kg	140	1	0	21.00	21.00	21.00
Aromatic EC >16-21	mg/kg	260	1	0	24.00	24.00	24.00
Aromatic EC >21-35	mg/kg	1100	1	0	0.70	0.70	0.70
Aromatic C5-C35	mg/kg		1	0	49.00	49.00	49.00
TPH Ali/Aro	mg/kg		1	0	120.00	120.00	120.00
Benzene	mg/kg	0.087	1	0	0.005	0.005	0.01
Ethylbenzene	mg/kg	47	1	0	0.005	0.005	0.01
Toluene	mg/kg	130	1	0	0.005	0.005	0.01
Xylenes	mg/kg	56	1	0	0.005	0.005	0.01
MTBE	mg/kg		1	0	0.005	0.005	0.01
PAHs							
Naphthalene	mg/kg	2.3	1	0	0.050	0.050	0.05
Acenaphthylene	mg/kg	170	1	0	0.050	0.050	0.05
Acenaphthene	mg/kg	210	1	0	0.050	0.050	0.05
Fluorene	mg/kg	170	1	0	0.050	0.050	0.05
Phenanthrene	mg/kg	95	1	0	0.050	0.050	0.05
Anthracene	mg/kg	2400	1	0	0.050	0.050	0.05
Fluoranthene	mg/kg	280	1	0	0.050	0.050	0.05
Pyrene	mg/kg	620	1	0	0.050	0.050	0.05
Benzo(a)anthracene	mg/kg	7.2	1	0	0.050	0.050	0.05
Chrysene	mg/kg	15	1	0	0.050	0.050	0.05
Benzo(b)fluoranthene	mg/kg	2.6	1	0	0.050	0.050	0.05
Benzo(k)fluoranthene	mg/kg	77	1	0	0.050	0.050	0.05
Benzo(a)pyrene	mg/kg	2.2	1	0	0.050	0.050	0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	27	1	0	0.050	0.050	0.05
Dibenzo(a,h)anthracene	mg/kg	0.24	1	0	0.050	0.050	0.05
Benzo(g,h,i)perylene	mg/kg	320	1	0	0.050	0.050	0.05
PAH	mg/kg		1	0	0.800	0.800	0.80
Phenol	mg/kg	120	0	0	0.000	0.000	-

Landuse	SOM%	Project No.	Project Name			Material	
Residential with Gardens	1	8190	Water's Edge, Whitehaven			Made Ground	
Determinand	**Units**	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
VOCs							
Vinyl Chloride	mg/kg	0.059	1	0	0.005	0.005	0.01
Chloroform	mg/kg	99	1	0	0.005	0.005	0.01
1,1,1-trichloroethane	mg/kg	660	1	0	0.005	0.005	0.01
Carbon tetrachloride	mg/kg	2.9	1	0	0.005	0.005	0.01
1,2-dichloroethane	mg/kg	0.67	1	0	0.005	0.005	0.01
Chlorobenzene	mg/kg	56	1	0	0.580	0.580	0.58
1,1,1,2-tetrachloroethane	mg/kg	110	1	0	0.005	0.005	0.01
1,3-dichlorobenzene	mg/kg	30	1	0	0.240	0.240	0.24
1,4-dichlorobenzene	mg/kg	4400	1	0	0.030	0.030	0.03
1,2-dichlorobenzene	mg/kg	2000	1	0	2.100	2.100	2.10
1,2,4-trichlorobenzene	mg/kg	220	1	0	0.005	0.005	0.01
Hexachlorobutadiene	mg/kg	31	1	0	0.005	0.005	0.01
1,2,3-trichlorobenzene	mg/kg	102	1	0	0.005	0.005	0.01
1,1-dichloroethane	mg/kg	280	1	0	0.005	0.005	0.01
1,2-dichloropropane	mg/kg	3.3	1	0	0.005	0.005	0.01
Bromodichloromethane	mg/kg	2.1	1	0	0.005	0.005	0.01
1,1,2-trichloroethane	mg/kg	94	1	0	0.005	0.005	0.01
Styrene	mg/kg	3300	1	0	0.005	0.005	0.01
Bromoform	mg/kg	760	1	0	0.005	0.005	0.01
Isopropylbenzene	mg/kg	1400	1	0	0.005	0.005	0.01
Bromobenzene	mg/kg	97	1	0	0.005	0.005	0.01
n-propylbenzene	mg/kg	4100	1	0	0.005	0.005	0.01
1,2,4-trimethylbenzene	mg/kg	42	1	0	0.005	0.005	0.01
SVOCs							
2-Chlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
2,4-Dichlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
1,2,4-Trichlorobenzene	mg/kg	220	1	0	0.050	0.050	0.05
2,4,6-Trichlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
2,3,4,6-Tetrachlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
Hexachlorobenzene	mg/kg	110vap(0.2)	1	0	0.050	0.050	0.05
Pentachlorophenol	mg/kg	400	1	0	0.050	0.050	0.05
2-Methylphenol	mg/kg	160000	1	0	0.300	0.300	0.30
3&4-Methylphenol	mg/kg	160000	1	0	0.050	0.050	0.05
2,4-Dimethylphenol	mg/kg	16000	1	0	0.050	0.050	0.05
2-Chloronaphthalene	mg/kg	390	1	0	0.050	0.050	0.05
2,4-Dinitrotoluene	mg/kg	3700	1	0	0.050	0.050	0.05
2,6-Dinitrotoluene	mg/kg	1900	1	0	0.050	0.050	0.05
Diethylphthalate	mg/kg	150000	1	0	0.050	0.050	0.05
Di-n-butylphthalate	mg/kg	150000	1	0	0.050	0.050	0.05
Butylbenzylphthalate	mg/kg	940000	1	0	0.050	0.050	0.05
Bis(2-ethylhexyl)phthalate	mg/kg	85000	1	0	0.050	0.050	0.05
Di-n-octylphthalate	mg/kg	89000	1	0	0.050	0.050	0.05

Landuse	SOM%	Project No.	Project Name			Material	
Residential with Gardens	1	8190	Water's Edge, Whitehaven			Natural Clay	
Determinand	**Units**	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
Petroleum Hydrocarbons							
Aliphatic EC 5-6	mg/kg	42	1	0	0.005	0.005	0.01
Aliphatic EC >6-8	mg/kg	100	1	0	0.005	0.005	0.01
Aliphatic EC >8-10	mg/kg	27	1	0	0.005	0.005	0.01
Aliphatic EC >10-12	mg/kg	130	1	0	0.75	0.75	0.75
Aliphatic EC >12-16	mg/kg	1100	1	0	0.60	0.60	0.60
Aliphatic C16-C21	mg/kg		1	0	0.75	0.75	0.75
Aliphatic C21-C35	mg/kg		1	0	1.70	1.70	1.70
Aliphatic EC >16-35	mg/kg	65000	1	0	2.45	2.45	2.45
Aliphatic C5-C35	mg/kg		1	0	5.00	5.00	5.00
Aromatic EC 5-7 (benzene)	mg/kg	70	1	0	0.005	0.005	0.01
Aromatic EC >7-8 (toluene)	mg/kg	130	1	0	0.005	0.005	0.01
Aromatic EC >8-10	mg/kg	34	1	0	0.005	0.005	0.01
Aromatic EC >10-12	mg/kg	74	1	0	0.45	0.45	0.45
Aromatic EC >12-16	mg/kg	140	1	0	0.25	0.25	0.25
Aromatic EC >16-21	mg/kg	260	1	0	0.30	0.30	0.30
Aromatic EC >21-35	mg/kg	1100	1	0	0.70	0.70	0.70
Aromatic C5-C35	mg/kg		1	0	5.00	5.00	5.00
TPH Ali/Aro	mg/kg		1	0	5.00	5.00	5.00
Benzene	mg/kg	0.087	1	0	0.005	0.005	0.01
Ethylbenzene	mg/kg	47	1	0	0.005	0.005	0.01
Toluene	mg/kg	130	1	0	0.005	0.005	0.01
Xylenes	mg/kg	56	1	0	0.005	0.005	0.01
MTBE	mg/kg		1	0	0.005	0.005	0.01
PAHs							
Naphthalene	mg/kg	2.3	1	0	0.050	0.050	0.05
Acenaphthylene	mg/kg	170	1	0	0.050	0.050	0.05
Acenaphthene	mg/kg	210	1	0	0.050	0.050	0.05
Fluorene	mg/kg	170	1	0	0.050	0.050	0.05
Phenanthrene	mg/kg	95	1	0	0.050	0.050	0.05
Anthracene	mg/kg	2400	1	0	0.050	0.050	0.05
Fluoranthene	mg/kg	280	1	0	0.050	0.050	0.05
Pyrene	mg/kg	620	1	0	0.050	0.050	0.05
Benzo(a)anthracene	mg/kg	7.2	1	0	0.050	0.050	0.05
Chrysene	mg/kg	15	1	0	0.050	0.050	0.05
Benzo(b)fluoranthene	mg/kg	2.6	1	0	0.050	0.050	0.05
Benzo(k)fluoranthene	mg/kg	77	1	0	0.050	0.050	0.05
Benzo(a)pyrene	mg/kg	2.2	1	0	0.050	0.050	0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	27	1	0	0.050	0.050	0.05
Dibenzo(a,h)anthracene	mg/kg	0.24	1	0	0.050	0.050	0.05
Benzo(g,h,i)perylene	mg/kg	320	1	0	0.050	0.050	0.05
PAH	mg/kg		1	0	0.800	0.800	0.80
Phenol	mg/kg	120	0	0	0.000	0.000	-

Landuse	SOM%	Project No.	Project Name			Material	
Residential with Gardens	1	8190	Water's Edge, Whitehaven			Natural Clay	
Determinand	**Units**	**Assessment Value (AV)**	**No. Samples**	**Samples Exceeding AV**	**Max**	**Min**	**Mean**
VOCs							
Vinyl Chloride	mg/kg	0.059	1	0	0.005	0.005	0.01
Chloroform	mg/kg	99	1	0	0.005	0.005	0.01
1,1,1-trichloroethane	mg/kg	660	1	0	0.005	0.005	0.01
Carbon tetrachloride	mg/kg	2.9	1	0	0.005	0.005	0.01
1,2-dichloroethane	mg/kg	0.67	1	0	0.005	0.005	0.01
Chlorobenzene	mg/kg	56	1	0	0.040	0.040	0.04
1,1,1,2-tetrachloroethane	mg/kg	110	1	0	0.005	0.005	0.01
1,3-dichlorobenzene	mg/kg	30	1	0	1.600	1.600	1.60
1,4-dichlorobenzene	mg/kg	4400	1	0	0.270	0.270	0.27
1,2-dichlorobenzene	mg/kg	2000	1	0	16.000	16.000	16.00
1,2,4-trichlorobenzene	mg/kg	220	1	0	0.005	0.005	0.01
Hexachlorobutadiene	mg/kg	31	1	0	0.005	0.005	0.01
1,2,3-trichlorobenzene	mg/kg	102	1	0	0.005	0.005	0.01
1,1-dichloroethane	mg/kg	280	1	0	0.005	0.005	0.01
1,2-dichloropropane	mg/kg	3.3	1	0	0.005	0.005	0.01
Bromodichloromethane	mg/kg	2.1	1	0	0.005	0.005	0.01
1,1,2-trichloroethane	mg/kg	94	1	0	0.005	0.005	0.01
Styrene	mg/kg	3300	1	0	0.005	0.005	0.01
Bromoform	mg/kg	760	1	0	0.005	0.005	0.01
Isopropylbenzene	mg/kg	1400	1	0	0.005	0.005	0.01
Bromobenzene	mg/kg	97	1	0	0.005	0.005	0.01
n-propylbenzene	mg/kg	4100	1	0	0.005	0.005	0.01
1,2,4-trimethylbenzene	mg/kg	42	1	0	0.005	0.005	0.01
SVOCs							
2-Chlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
2,4-Dichlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
1,2,4-Trichlorobenzene	mg/kg	220	1	0	0.050	0.050	0.05
2,4,6-Trichlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
2,3,4,6-Tetrachlorophenol	mg/kg	3500	1	0	0.050	0.050	0.05
Hexachlorobenzene	mg/kg	110vap(0.2)	1	0	0.050	0.050	0.05
Pentachlorophenol	mg/kg	400	1	0	0.050	0.050	0.05
2-Methylphenol	mg/kg	160000	1	0	0.050	0.050	0.05
3&4-Methylphenol	mg/kg	160000	1	0	0.050	0.050	0.05
2,4-Dimethylphenol	mg/kg	16000	1	0	0.050	0.050	0.05
2-Chloronaphthalene	mg/kg	390	1	0	0.050	0.050	0.05
2,4-Dinitrotoluene	mg/kg	3700	1	0	0.050	0.050	0.05
2,6-Dinitrotoluene	mg/kg	1900	1	0	0.050	0.050	0.05
Diethylphthalate	mg/kg	150000	1	0	0.050	0.050	0.05
Di-n-butylphthalate	mg/kg	150000	1	0	0.050	0.050	0.05
Butylbenzylphthalate	mg/kg	940000	1	0	0.050	0.050	0.05
Bis(2-ethylhexyl)phthalate	mg/kg	85000	1	0	0.050	0.050	0.05
Di-n-octylphthalate	mg/kg	89000	1	0	0.050	0.050	0.05

APPENDIX 5

NOTES ON LIMITATIONS

NOTES ON LIMITATIONS

1 FWS Consultants Ltd ("FWS") has prepared this report solely for the use of the client and/or his agent (the "Client") on the basis of exchange(s) of written proposals and instructions, and FWS accepts no responsibility or liability:-

a) for use of this report by any party other than the person for whom it was commissioned, or;

b) for the consequences of the report being used for any purpose other than that for which FWS was instructed to prepare it.

Should any third party wish to use or rely upon the contents of the report, written approval from FWS must be sought.

2 All information supplied by the Client, the Client's staff and professional advisers, local authorities, other statutory bodies, investigation agencies and publicly accessible databases, shall be provided to FWS in writing, and is accepted as being correct unless otherwise specified in writing by the discloser of the information.

3 The conclusions and recommendations in this report represent the professional opinions of FWS derived from currently accepted industry practices, and through the exercising of reasonable skill and care to be expected of a professional geosciences and environmental consultancy of similar size and experience. The assessments and judgments given in this report are directed by and limited to both the finite data on which they are based and the proposed works to which they are addressed.

4 Environmental and geotechnical desk studies comprise a study of available information obtained from various identified sources, authorities and parties. The information reviewed cannot be exhaustive and has been accepted in good faith as providing representative and true data pertaining to site conditions. For clarity, no independent verification of this data is carried out by FWS and it is accepted at face value. Any identified risks in desk study reports are perceived risks based on the information available at the time. Actual risks can only be assessed after carrying out a thorough physical investigation of the site that serves to validate such identified risks.

5 Data acquisition during site investigations is subject to the limitations of the methods of investigation used, site conditions and access constraints. Exploratory holes undertaken during fieldwork, particularly boreholes and/or trial pits, investigate a small volume of ground in relation to the size of the site and thus can only provide an indication of site conditions. The opinions provided and recommendations given in this report are based on the desk study information and ground conditions apparent at the site of each of the exploratory holes. There may be ground conditions elsewhere onsite that have not been disclosed by the investigation and which therefore have not been taken into account in this report. FWS will take all due care and make commentary on the adequacy of data collection and therefore the ability to highlight the presence or otherwise of exceptional conditions.

6 Owing to the natural variation of the systems that are being investigated, and the anthropological impact similarly changing through time, the findings and opinions in this report are relevant to the dates of the site works and should not be relied upon to represent conditions after a reasonable passing of time. Site conditions will change over time due to natural variations and human activities. The comments made on groundwater, surface water and soil gas conditions are based on observations made at the time that the site work was carried out. It should be noted that these conditions will vary owing to seasonal, tidal and meteorological effects. Variation in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, or subsequent developments or activities on the site or adjacent area.

7 The scope of the investigation, as agreed between FWS and the Client, was undertaken based on the specific development proposals of the Client and may be inappropriate to another form of development or scheme.

8 The opinions expressed in this report regarding contamination, geotechnical and/or waste assessments are based on simple statistical analysis and comparison with available guidance values. No liability can be accepted for the retrospective effects of any changes or amendments to these values.

APPENDIX 3

GARDEN VALIDATION

"Without Site Investigation Ground is a Hazard"

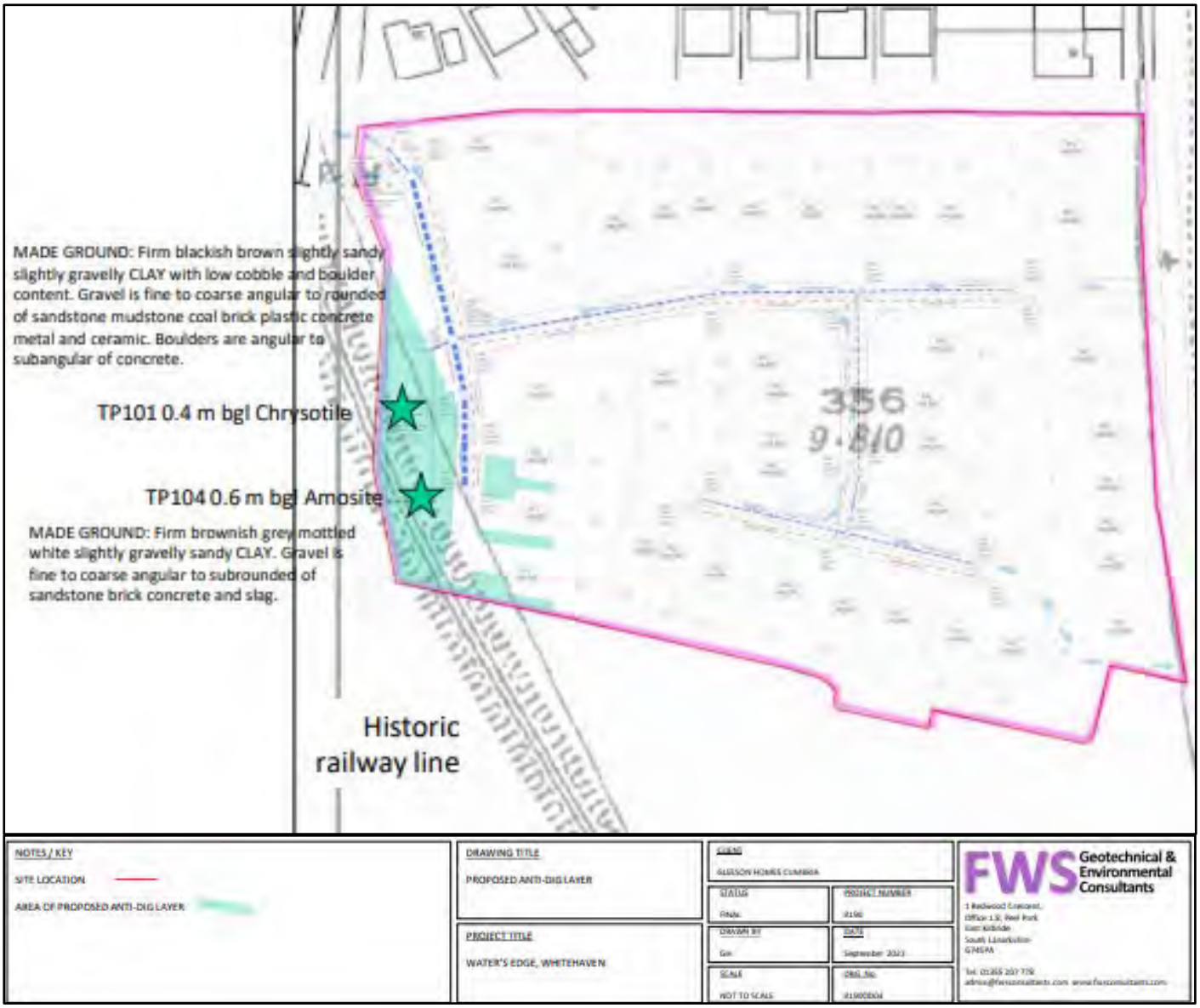
Site Investigation Steering Group (SISG), 1993

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Chemical Assessment Sheet - Soils

Notes:
GAC = Generic Assessment Criteria
YES = GAC Exceeded
CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 1% SOM)

LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 1% SOM)
CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 1% SOM)
ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

Lab number		89792-1	89792-2	89792-3	89792-4	89792-5	89792-6	89792-7	89792-8	89792-9	89792-10	89792-11	89792-12	89792-13	89792-14	89792-15	89792-16	89792-17	89792-18	89792-19	89792-20	89792-21	89792-22	Generic Assessment Criteria Residential With Plant Uptake 1.0% SOM		
Sample id		POI 9	TP201	TP202	TP204	TP204	TP205	TP205	TP206	TP207	TP208	TP208	TP209	TP210	TP213	TP214	TP215	TP215	TP217	TP218	TP220	TP221	TP223			
Depth (m)		0.50	0.10	0.10	0.10	0.90	0.10	0.80	0.10	1.00	0.10	2.00	1.50	0.10	0.10	0.50	0.10	0.90	0.10	0.10	0.10	0.10	0.10			
Date sampled		28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	28/09/2020	GAC	GAC Exceeded?	GAC Ref:
Test	**Units**																									
Arsenic (total)	mg/kg As	374	20	12	13	-	9.9	-	18	-	18	-	-	15	18	-	21	-	16	14	14	10	7.1	37	YES	LQM S4UL
Cadmium (total)	mg/kg Cd	<0.2	0.3	0.2	0.3	-	<0.2	-	0.4	-	0.4	-	-	0.3	0.4	-	0.3	-	0.3	0.2	0.3	0.2	<0.2	11	No	LQM S4UL
Chromium (III)	mg/kg CrIII	27	85	50	66	-	37	-	83	-	75	-	-	60	79	-	79	-	57	56	61	56	74	910	No	LQM S4UL
Chromium (VI)	mg/kg CrVI	<1	<1	<1	<1	-	<1	-	<1	-	<1	-	-	<1	<1	-	<1	-	<1	<1	<1	<1	<1	6	No	LQM S4UL
Copper (total)	mg/kg Cu	22	18	15	62	-	16	-	22	-	20	-	-	16	19	-	22	-	21	19	15	14	26	2400	No	LQM S4UL
Lead (total)	mg/kg Pb	111	89	60	54	-	40	-	87	-	73	-	-	72	74	-	65	-	54	50	56	58	8.5	200	No	CL:AIRE C4SL
Mercury (total)	mg/kg Hg	0.6	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	40	No	LQM S4UL
Nickel (total)	mg/kg Ni	16	17	15	17	-	14	-	28	-	24	-	-	19	26	-	31	-	19	17	17	16	33	130	No	LQM S4UL
Selenium (total)	mg/kg Se	12	1.4	1.1	1.2	-	1.0	-	1.9	-	1.5	-	-	1.3	1.6	-	1.9	-	1.7	1.4	1.4	1.4	1.8	250	No	LQM S4UL
Zinc (total)	mg/kg Zn	27	70	61	62	-	51	-	112	-	122	-	-	84	106	-	96	-	77	68	69	66	42	3700	No	LQM S4UL
pH	units	5.8	5.6	5.6	5.7	6.4	4.6	5.9	5.5	6.2	5.8	7.4	7.2	5.5	5.7	6.0	5.1	6.4	6.6	5.5	5.1	5.3	6.6	N/A	N/A	N/A
Sulphate (2:1 water soluble)	mg/l SO_4	43	21	23	18	30	18	16	25	<10	14	37	17	23	20	13	17	<10	30	18	25	29	19	N/A	N/A	N/A
Cyanide (total)	mg/kg CN	<1	<1	<1	<1	-	<1	-	<1	-	<1	-	-	<1	<1	-	<1	-	<1	<1	<1	<1	<1	34	No	ATRISK SSV
Total Organic Carbon (TOC)	% w/w C	38.4	3.7	3.4	2.6	-	2.5	-	2.0	-	2.3	-	-	2.1	2.2	-	1.9	-	3.9	2.7	2.5	3.6	0.5	-	-	-
PAH																										
Naphthalene	mg/kg	0.03	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	0.03	-	<0.02	<0.02	0.02	<0.02	<0.02	2.3	No	LQM S4UL
Acenaphthylene	mg/kg	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	170	No	LQM S4UL
Acenaphthene	mg/kg	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	210	No	LQM S4UL
Fluorene	mg/kg	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	170	No	LQM S4UL
Phenanthrene	mg/kg	0.09	<0.02	0.03	0.03	-	0.04	-	0.03	-	0.04	-	-	0.04	0.03	-	0.11	-	0.04	0.10	0.03	0.03	<0.02	95	No	LQM S4UL
Anthracene	mg/kg	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	0.02	-	<0.02	0.03	<0.02	<0.02	<0.02	2400	No	LQM S4UL
Fluoranthene	mg/kg	0.04	0.04	0.06	0.06	-	0.10	-	0.08	-	0.05	-	-	0.07	0.05	-	0.12	-	0.09	0.19	0.06	0.13	<0.02	280	No	LQM S4UL
Pyrene	mg/kg	0.03	0.03	0.05	0.05	-	0.08	-	0.07	-	0.04	-	-	0.06	0.04	-	0.10	-	0.07	0.15	0.05	0.11	<0.02	620	No	LQM S4UL
Benzo(a)anthracene	mg/kg	0.02	<0.02	0.04	0.03	-	0.04	-	0.04	-	0.03	-	-	0.03	0.03	-	0.05	-	0.04	0.07	0.03	0.07	<0.02	7.2	No	LQM S4UL
Chrysene	mg/kg	<0.03	<0.03	0.03	<0.03	-	0.05	-	0.05	-	<0.03	-	-	<0.03	<0.03	-	0.05	-	0.04	0.08	<0.03	0.07	<0.03	15	No	LQM S4UL
Benzo(b)fluoranthene	mg/kg	<0.02	0.02	0.05	0.03	-	0.07	-	0.07	-	0.03	-	-	0.05	0.03	-	0.05	-	0.07	0.11	0.04	0.12	<0.02	2.6	No	LQM S4UL
Benzo(k)fluoranthene	mg/kg	<0.03	<0.03	<0.03	<0.03	-	<0.03	-	<0.03	-	<0.03	-	-	<0.03	<0.03	-	<0.03	-	<0.03	0.05	<0.03	0.04	<0.03	77	No	LQM S4UL
Benzo(a)pyrene	mg/kg	<0.02	<0.02	0.03	0.02	-	0.04	-	0.04	-	0.02	-	-	0.02	<0.02	-	0.03	-	0.04	0.06	0.02	0.06	<0.02	2.2	No	LQM S4UL
Indeno(123cd)pyrene	mg/kg	<0.02	<0.02	0.03	0.02	-	0.05	-	0.05	-	0.03	-	-	0.03	0.02	-	0.04	-	0.04	0.07	0.02	0.08	<0.02	27	No	LQM S4UL
Dibenz(ah)anthracene	mg/kg	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	0.24	No	LQM S4UL
Benzo(ghi)perylene	mg/kg	<0.02	<0.02	0.03	<0.02	-	0.04	-	0.03	-	<0.02	-	-	0.02	<0.02	-	0.03	-	0.03	0.05	<0.02	0.06	<0.02	320	No	LQM S4UL
PAH (total of USEPA 16)	mg/kg	<0.34	<0.34	0.36	<0.34	-	0.50	-	0.45	-	<0.34	-	-	<0.34	<0.34	-	0.62	-	0.46	0.96	<0.34	0.76	<0.34	-	-	-
Subcontracted analysis																										
Asbestos (qualitative)	-	NAD	NAD	NAD	NAD	-	NAD	-	NAD	-	NAD	-	-	NAD	NAD	-	NAD	-	NAD	NAD	NAD	NAD	NAD	Present	No	Presence

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ANALYTICAL TEST REPORT

Contract no:	126535
Contract name:	Waters Edge, Whitehaven
Client reference:	2022-5495
Clients name:	Geo Environmental Engineering
Clients address:	4 Culgarth Avenue Cockermouth Cumbria CA13 9PL
Samples received:	11 September 2023
Analysis started:	11 September 2023
Analysis completed:	15 September 2023
Report issued:	15 September 2023

Key		
	U	UKAS accredited test
	M	MCERTS & UKAS accredited test
	$	Test carried out by an approved subcontractor
	I/S	Insufficient sample to carry out test
	N/S	Sample not suitable for testing
	NAD	No Asbestos Detected

Approved by: [redacted]

Ellis McCulloch

Senior Reporting Administrator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
126535-1	Plot 1	-	Sandy Clayey Loam with Gravel	-	-	10.1
126535-2	Plot 3	-	Sandy Loamy Clay	-	-	12.6
126535-3	Plot 5	-	Sandy Clayey Loam with Gravel & Roots	-	-	14.2
126535-4	Plot 5	-	Sandy Clayey Loam with Gravel & Roots	-	-	8.4
126535-5	Plot 7	-	Sandy Clayey Loam with Gravel & Roots	-	-	16.7
126535-6	Plot 7	-	Sandy Clayey Loam with Gravel & Roots	-	-	10.1

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SOILS

Lab number			126535-1	126535-2	126535-3	126535-4	126535-5	126535-6
Sample id			Plot 1	Plot 3	Plot 5	Plot 5	Plot 7	Plot 7
Depth (m)			-	-	-	-	-	-
Date sampled			08/09/2023	08/09/2023	08/09/2023	08/09/2023	08/09/2023	08/09/2023
Test	Method	Units						
Arsenic (total)	CE264[M]	mg/kg As	13.0	15.2	18.6	14.9	18.6	13.9
Cadmium (total)	CE264[M]	mg/kg Cd	2.6	<2	<2	<2	<2	<2
Chromium (total)	CE264[U]	mg/kg Cr	26.7	36.7	32.3	31.4	42.9	29.3
Chromium (III)	CE208	mg/kg CrIII	26.7	36.7	32.3	31.4	42.9	29.3
Chromium (VI)	CE263	mg/kg CrVI	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Copper (total)	CE264[M]	mg/kg Cu	88.1	31.1	17.6	23.7	18.8	23.8
Lead (total)	CE264[U]	mg/kg Pb	67.3	26.0	52.9	23.4	49.4	21.2
Mercury (total)	CE264[U]	mg/kg Hg	<2	<2	<2	<2	<2	<2
Nickel (total)	CE264[M]	mg/kg Ni	27.2	30.4	20.2	28.0	31.7	26.3
Selenium (total)	CE264	mg/kg Se	<3	<3	<3	<3	<3	<3
Zinc (total)	CE264[M]	mg/kg Zn	226.2	62.8	70.1	51.9	78.7	53.2
pH	CE004 [M]	units	8.6	8.4	6.0	8.1	6.3	7.1
Sulphate (2:1 water soluble)	CE061 [U]	mg/l SO_4	215	81	54	104	55	85
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1
Total Organic Carbon (TOC)	CE197	% w/w C	1.7	1.0	3.0	0.9	2.5	1.8
PAH								
Naphthalene	CE087 [M]	mg/kg	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 [M]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 [M]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 [U]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 [M]	mg/kg	0.07	0.04	0.10	0.05	0.07	0.02
Anthracene	CE087 [U]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 [M]	mg/kg	0.05	0.03	0.03	0.08	0.06	<0.02
Pyrene	CE087 [M]	mg/kg	0.05	0.03	0.02	0.06	0.04	<0.02
Benzo(a)anthracene	CE087 [U]	mg/kg	0.04	0.03	0.02	0.05	0.05	<0.02
Chrysene	CE087 [M]	mg/kg	0.03	<0.03	<0.03	0.04	0.06	<0.03
Benzo(b)fluoranthene	CE087 [M]	mg/kg	0.04	<0.02	<0.02	0.04	0.05	<0.02
Benzo(k)fluoranthene	CE087 [M]	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 [U]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 [M]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 [M]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 [M]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
BTEX & TPH								
MTBE	CE192 [U]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE192 [U]	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE192 [U]	mg/kg	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Ethylbenzene	CE192 [U]	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE192 [U]	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE192 [U]	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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SOILS

Lab number			126535-1	126535-2	126535-3	126535-4	126535-5	126535-6
Sample id			Plot 1	Plot 3	Plot 5	Plot 5	Plot 7	Plot 7
Depth (m)			-	-	-	-	-	-
Date sampled			08/09/2023	08/09/2023	08/09/2023	08/09/2023	08/09/2023	08/09/2023
Test	Method	Units						
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<10	<10	<10	<10	<10	<10
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<10	<10	<10	<10	<10	<10
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	33	<1	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	93	17	14	<1	21	<1
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	76	58	32	27	21	19
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6	<6	<6	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6	<6	<6	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<15	<15	<15	<15	<15	<15
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10	<10	<10	<10	<10
Subcontracted Analysis								
Asbestos (qualitative)	$	-	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE264	Arsenic (total)	Aqua Regia Extraction, ICPOES	Dry	M	3	mg/kg As
CE264	Cadmium (total)	Aqua Regia Extraction, ICPOES	Dry	M	2	mg/kg Cd
CE264	Chromium (total)	Aqua Regia Extraction, ICPOES	Dry	U	2	mg/kg Cr
CE208	Chromium (III)	Calculation: Cr (total) - Cr (VI)	Dry		1	mg/kg CrIII
CE263	Chromium (VI)	Discrete Analyser	Dry		0.04	mg/kg CrVI
CE264	Copper (total)	Aqua Regia Extraction, ICPOES	Dry	M	2	mg/kg Cu
CE264	Lead (total)	Aqua Regia Extraction, ICPOES	Dry	U	3	mg/kg Pb
CE264	Mercury (total)	Aqua Regia Extraction, ICPOES	Dry	U	2	mg/kg Hg
CE264	Nickel (total)	Aqua Regia Extraction, ICPOES	Dry	M	3	mg/kg Ni
CE264	Selenium (total)	Aqua Regia Extraction, ICPOES	Dry	U	3	mg/kg Se
CE264	Zinc (total)	Aqua Regia Extraction, ICPOES	Dry	M	4	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO_4
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	As received		1	mg/kg CN
CE197	Total Organic Carbon (TOC)	Carbon Analyser	Dry		0.1	% w/w C
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE192	MTBE	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	Benzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Toluene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	Ethylbenzene	Headspace GC-FID	As received	U	0.01	mg/kg
CE192	m & p-Xylene	Headspace GC-FID	As received	U	0.02	mg/kg
CE192	o-Xylene	Headspace GC-FID	As received	U	0.01	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg
$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.
For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.
Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
126535-1	Plot 1	-	N	
126535-2	Plot 3	-	N	
126535-3	Plot 5	-	N	
126535-4	Plot 5	-	N	
126535-5	Plot 7	-	N	
126535-6	Plot 7	-	N	

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ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis

Geo Environmental Engineering Ltd

Chemical Assessment Sheet - Soils

Lab number			126535-1	126535-2	126535-3	126535-4	126535-5	126535-6	Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
Sample id			Plot 1	Plot 3	Plot 5	Plot 5	Plot 7	Plot 7			
Depth (m)			SUBSOIL	SUBSOIL	TOPSOIL	SUBSOIL	TOPSOIL	SUBSOIL	GAC	GAC Exceeded?	GAC Ref:
Date sampled			08/09/2023	08/09/2023	08/09/2023	08/09/2023	08/09/2023	08/09/2023			
Test	Method	Units									
Arsenic (total)	CE264M	mg/kg As	13.0	15.2	18.6	14.9	18.6	13.9	37	No	LQM S4UL
Cadmium (total)	CE264M	mg/kg Cd	2.6	<2	<2	<2	<2	<2	11	No	LQM S4UL
Chromium (III)	CE208	mg/kg CrIII	26.7	36.7	32.3	31.4	42.9	29.3	910	No	LQM S4UL
Chromium (VI)	CE263	mg/kg CrVI	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	6	No	LQM S4UL
Copper (total)	CE264M	mg/kg Cu	88.1	31.1	17.6	23.7	18.8	23.8	2400	No	LQM S4UL
Lead (total)	CE264U	mg/kg Pb	67.3	26.0	52.9	23.4	49.4	21.2	200	No	CL:AIRE C4SL
Mercury (total)	CE264U	mg/kg Hg	<2	<2	<2	<2	<2	<2	40	No	LQM S4UL
Nickel (total)	CE264M	mg/kg Ni	27.2	30.4	20.2	28.0	31.7	26.3	130	No	LQM S4UL
Selenium (total)	CE264	mg/kg Se	<3	<3	<3	<3	<3	<3	250	No	LQM S4UL
Zinc (total)	CE264M	mg/kg Zn	226.2	62.8	70.1	51.9	78.7	53.2	3700	No	LQM S4UL
pH	CE004 M	units	8.6	8.4	6.0	8.1	6.3	7.1	N/A	N/A	N/A
Sulphate (2:1 water soluble)	CE061 U	mg/l SO4	215	81	54	104	55	85	N/A	N/A	N/A
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1	34	No	ATRISK SSV
Total Organic Carbon (TOC)	CE197	% w/w C	1.7	1.0	3.0	0.9	2.5	1.8	-	-	-
PAH											
Naphthalene	CE087 M	mg/kg	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	5.6	No	LQM S4UL
Acenaphthylene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	420	No	LQM S4UL
Acenaphthene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	510	No	LQM S4UL
Fluorene	CE087 U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	400	No	LQM S4UL
Phenanthrene	CE087 M	mg/kg	0.07	0.04	0.10	0.05	0.07	0.02	220	No	LQM S4UL
Anthracene	CE087 U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	5400	No	LQM S4UL
Fluoranthene	CE087 M	mg/kg	0.05	0.03	0.03	0.08	0.06	<0.02	560	No	LQM S4UL
Pyrene	CE087 M	mg/kg	0.05	0.03	0.02	0.06	0.04	<0.02	1200	No	LQM S4UL
Benzo(a)anthracene	CE087 U	mg/kg	0.04	0.03	0.02	0.05	0.05	<0.02	11	No	LQM S4UL
Chrysene	CE087 M	mg/kg	0.03	<0.03	<0.03	0.04	0.06	<0.03	22	No	LQM S4UL
Benzo(b)fluoranthene	CE087 M	mg/kg	0.04	<0.02	<0.02	0.04	0.05	<0.02	3.3	No	LQM S4UL
Benzo(k)fluoranthene	CE087 M	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	93	No	LQM S4UL
Benzo(a)pyrene	CE087 U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	2.7	No	LQM S4UL
Indeno(123cd)pyrene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	36	No	LQM S4UL
Dibenz(ah)anthracene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.28	No	LQM S4UL
Benzo(ghi)perylene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	340	No	LQM S4UL
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	-	-	-
BTEX & TPH											
MTBE	CE192 U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	84	No	CL:AIRE GAC (2010)
Benzene	CE192 U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	No	LQM S4UL
Toluene	CE192 U	mg/kg	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	290	No	LQM S4UL
Ethylbenzene	CE192 U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	110	No	LQM S4UL
m & p-Xylene	CE192 U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	130	No	LQM S4UL
o-Xylene	CE192 U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	140	No	LQM S4UL
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	140	No	LQM S4UL
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	290	No	LQM S4UL
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	83	No	LQM S4UL
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<10	<10	<10	<10	<10	<10	180	No	LQM S4UL
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<10	<10	<10	<10	<10	<10	330	No	LQM S4UL
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	33	<1	<1	<1	<1	<1	540	No	LQM S4UL
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	93	17	14	<1	21	<1	1500	No	LQM S4UL
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	76	58	32	27	21	19	1500	No	LQM S4UL
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	78	No	LQM S4UL
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	230	No	LQM S4UL
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	65	No	LQM S4UL
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6	<6	<6	<6	<6	330	No	LQM S4UL
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6	<6	<6	<6	<6	2400	No	LQM S4UL
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<15	<15	<15	<15	<15	<15	92000	No	LQM S4UL
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10	<10	<10	<10	<10	92000	No	LQM S4UL
Subcontracted Analysis											
Asbestos (qualitative)	$	-	NAD	NAD	NAD	NAD	NAD	NAD	Present	No	Presence

GEO Environmental Engineering

GEO Environmental Engineering Ltd

Geotechnical and Environmental
Consultants
&
Drilling Experts

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VAT No.: GB 986617072

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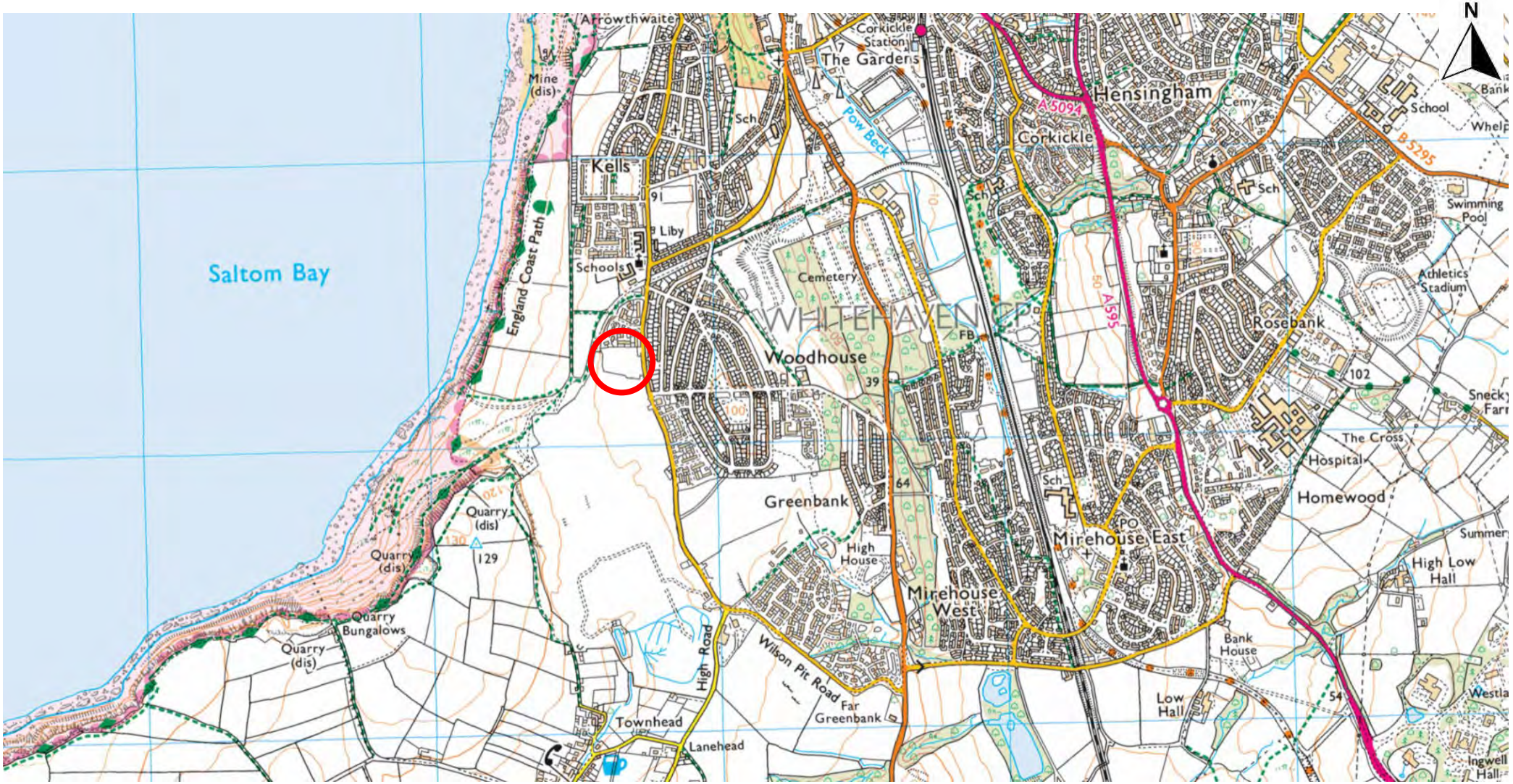
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"Without Site Investigation Ground is a Hazard" *Site Investigation Steering Group (SISG), 1993*

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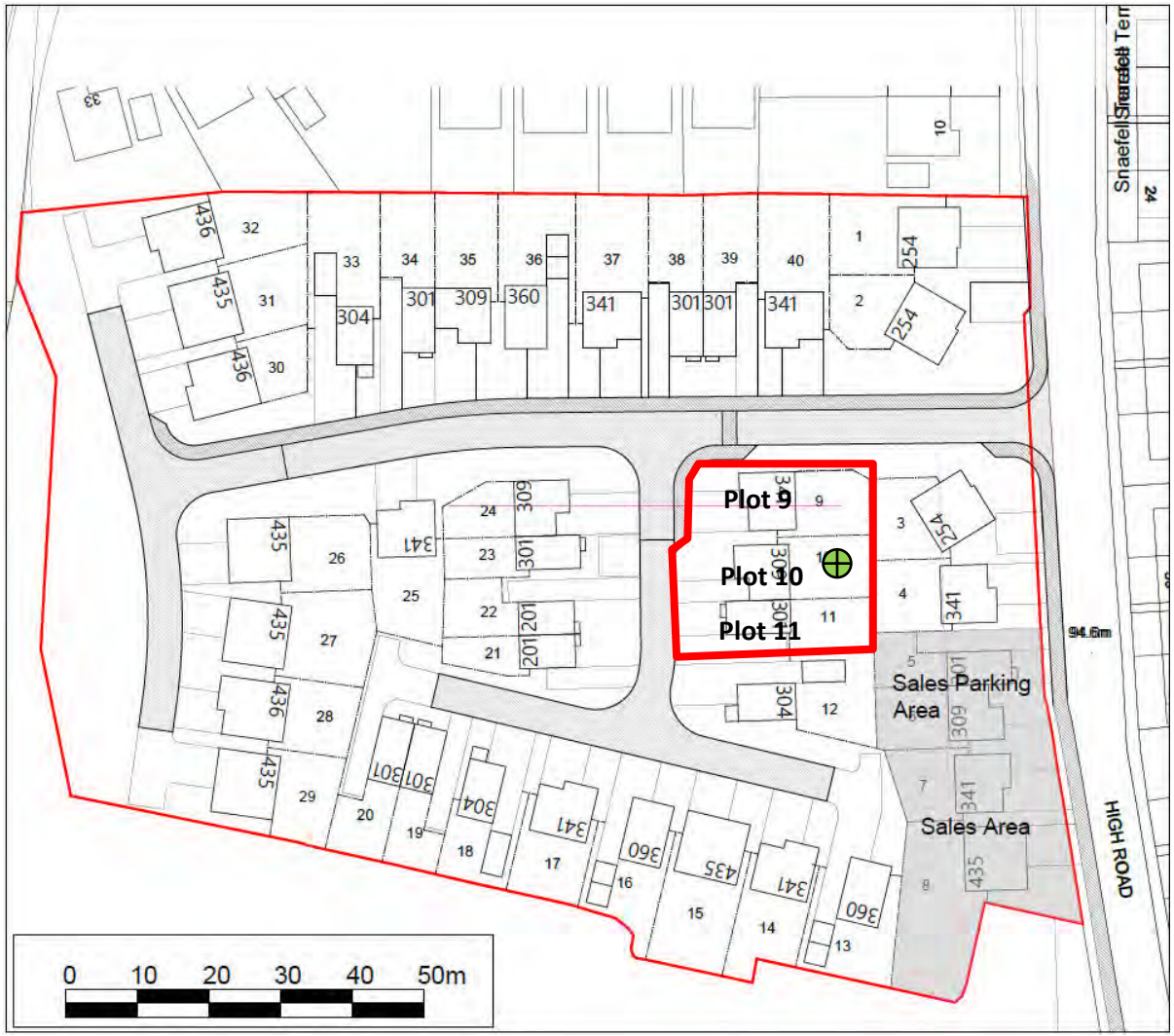
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KEY:

⊕ **Validation Sampling Locations**

*** Exploratory Hole Locations are approximate. Do Not Scale.**

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Certificate of Analysis

Certificate Number	24-07447
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-07447
Client Reference ~	GEO02022-5495
Order No ~	(not supplied)
Contract Title ~	WATERSEDGE, WHITEHAVEN
Description	2 Soil samples.
Date Received	11-Apr-24
Date Started	11-Apr-24
Date Completed	18-Apr-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-07447
Client Ref ~ GEO02022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

			Lab No	2323552	2323553
			Sample ID ~	PLOT 10	PLOT 10
			Depth ~	0.10	0.40
			Other ID ~		
			Sample Type ~	SOIL	SOIL
			Sampling Date ~	10/04/2024	10/04/2024
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	9.0	16
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.2
Chromium III	DETSC 2301*	0.15	mg/kg	14	18
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	35	24
Lead	DETSC 2301#	0.3	mg/kg	80	61
Mercury	DETSC 2325#	0.05	mg/kg	0.14	0.11
Nickel	DETSC 2301#	1	mg/kg	10	16
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	110	99
Inorganics					
pH	DETSC 2008#		pH	8.2	8.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4	0.5
Total Organic Carbon	DETSC 2084#	0.5	%	4.1	3.0
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	33	99
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-07447
Client Ref ~ GEO02022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2323552	PLOT 10 0.10	SOIL	NAD	none	Ben Rose
2323553	PLOT 10 0.40	SOIL	NAD	none	Ben Rose

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

Information in Support of the Analytical Results

Our Ref 24-07447
Client Ref ~ GEO02022-5495
Contract ~ WATERSEDGE, WHITEHAVEN

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2323552	PLOT 10 0.10 SOIL	10/04/24	GJ 250ml		
2323553	PLOT 10 0.40 SOIL	10/04/24	GJ 250ml		

Key: G-Glass J-Jar

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

***** -not accredited.

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

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Geo Environmnetal Engineering Ltd
Chemical Assessment Sheet - Soils

DETS Ref 24-07447
GEO Ref ~ GEO02022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

GEO Environmental Engineering

				Lab No	2323552	2323553	Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
				Sample ID ~	PLOT 10	PLOT 10	GAC	GAC Exceeded?	GAC Ref:
				Depth ~	0.10	0.40			
				Sample Type ~	TOPSOIL	SUBSOIL			
Metals	**Method**	**LOD**	**Units**						
Arsenic	DETSC 2301#	0.2	mg/kg	9.0	16	37	No	LQM S4UL
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.2	11	No	LQM S4UL
Chromium III	DETSC 2301*	0.15	mg/kg	14	18	910	No	LQM S4UL
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	6	No	LQM S4UL
Copper	DETSC 2301#	0.2	mg/kg	35	24	2400	No	LQM S4UL
Lead	DETSC 2301#	0.3	mg/kg	80	61	200	No	CL:AIRE C4SL
Mercury	DETSC 2325#	0.05	mg/kg	0.14	0.11	40	No	LQM S4UL
Nickel	DETSC 2301#	1	mg/kg	10	16	130	No	LQM S4UL
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	250	No	LQM S4UL
Zinc	DETSC 2301#	1	mg/kg	110	99	3700	No	LQM S4UL
Inorganics								
pH	DETSC 2008#		pH	8.2	8.5	N/A	N/A	N/A
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.4	0.5	34	No	ATRISK SSV
Total Organic Carbon	DETSC 2084#	0.5	%	4.1	3.0	-	-	-
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	33	99	N/A	N/A	BRE
PAHs								
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	510	No	LQM S4UL
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	400	No	LQM S4UL
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	220	No	LQM S4UL
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	5400	No	LQM S4UL
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	560	No	LQM S4UL
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	1200	No	LQM S4UL
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	11	No	LQM S4UL
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	22	No	LQM S4UL
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	3.3	No	LQM S4UL
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	93	No	LQM S4UL
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	36	No	LQM S4UL
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	340	No	LQM S4UL
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	-	-	-
Asbestos				NAD	NAD	Presence	No	-

Notes:

GAC = Generic Assessment Criteria

YES = GAC Exceeded

CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)

LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)

CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)

ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

GEO Environmental Engineering

GEO Environmental Engineering Ltd

Geotechnical and Environmental
Consultants
&
Drilling Experts

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(GEO Standard Terms and Conditions Apply)

GEO Environmental Engineering Ltd
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Telephone: 07883 440 186
Email: info@geoenvironmentalengineering.com
Website: www.geoenvironmentalengineering.com
Company No.: 07180338
VAT No.: GB 986617072

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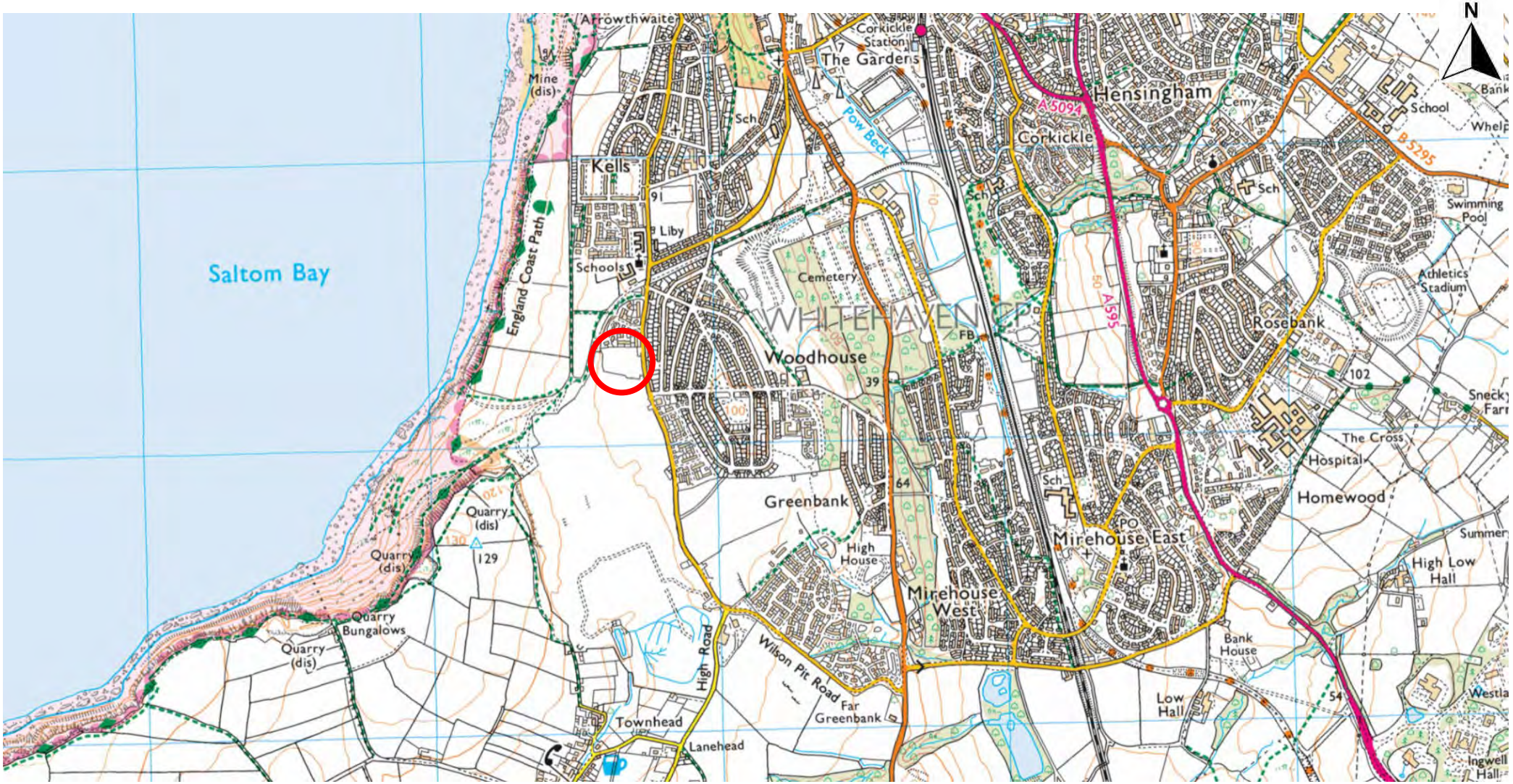
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Telephone: 07883 440 186

GEO
Environmental Engineering



KEY:

⊕ **Validation Sampling Locations**

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

Website: www.geoenvironmentalengineering.com
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Certificate of Analysis

Certificate Number	24-11468
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-11468
Client Reference ~	GEO2022-5495
Order No ~	(not supplied)
Contract Title ~	WATERSEDGE, WHITEHAVEN
Description	One Soil sample.
Date Received	05-Jun-24
Date Started	05-Jun-24
Date Completed	11-Jun-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

ilac-MRA UKAS TESTING 2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-11468
Client Ref ~ GEO2022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

Lab No	2346458
Sample ID ~	PLOT 12
Depth ~	0.30
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	03/06/2024
Sampling Time ~	n/s

Test	Method	LOD	Units	
Metals				
Arsenic	DETSC 2301#	0.2	mg/kg	10
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1
Chromium III	DETSC 2301*	0.15	mg/kg	17
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	30
Lead	DETSC 2301#	0.3	mg/kg	9.2
Mercury	DETSC 2325#	0.05	mg/kg	0.05
Nickel	DETSC 2301#	1	mg/kg	31
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5
Zinc	DETSC 2301#	1	mg/kg	43
Inorganics				
pH	DETSC 2008#		pH	8.7
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	1.7
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	100
PAHs				
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	0.2
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	0.4
Pyrene	DETSC 3301	0.1	mg/kg	0.4
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	0.1
Chrysene	DETSC 3301	0.1	mg/kg	0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	0.2
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-11468
Client Ref ~ GEO2022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2346458	PLOT 12 0.30	SOIL	NAD	none	D Wilkinson

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

Information in Support of the Analytical Results

Our Ref 24-11468
Client Ref ~ GEO2022-5495
Contract ~ WATERSEDGE, WHITEHAVEN

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2346458	PLOT 12 0.30 SOIL	03/06/24	No containers logged		Cannot evaluate

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

***** -not accredited.

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

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Certificate of Analysis

Certificate Number	24-12044
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-12044
Client Reference ~	GEO2022-5495
Order No ~	GEO2022-5495
Contract Title ~	WATERSEDGE, WHITEHAVEN
Description	4 Soil samples.
Date Received	12-Jun-24
Date Started	12-Jun-24
Date Completed	20-Jun-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-12044
Client Ref ~ GEO2022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

			Lab No	2350369	2350370	2350371	2350372
			Sample ID ~	PLOT 13	PLOT 13	PLOT 15	PLOT 15
			Depth ~	0.10	0.30	0.10	0.30
			Other ID ~				
			Sample Type ~	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	10/06/2024	10/06/2024	10/06/2024	10/06/2024
			Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	20	8.2	19	8.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1	0.3	0.2
Chromium III	DETSC 2301*	0.15	mg/kg	20	28	24	16
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	20	26	24	21
Lead	DETSC 2301#	0.3	mg/kg	52	17	55	16
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	0.08	0.06
Nickel	DETSC 2301#	1	mg/kg	16	22	20	17
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	88	61	97	58
Inorganics							
pH	DETSC 2008#		pH	7.3	10.2	6.8	10.6
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.4	< 0.1	0.7	0.2
Total Organic Carbon	DETSC 2084#	0.5	%	3.2	2.5	2.9	1.6
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	38	240	40	230
PAHs							
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	0.3	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.7	< 0.1	0.6
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.4	< 0.1	0.5
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.2	< 0.1	0.2
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	0.2
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	0.3
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.5
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	2.7

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-12044
Client Ref ~ GEO2022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2350369	PLOT 13 0.10	SOIL	NAD	none	Josh Best
2350370	PLOT 13 0.30	SOIL	NAD	none	Josh Best
2350371	PLOT 15 0.10	SOIL	NAD	none	Josh Best
2350372	PLOT 15 0.30	SOIL	NAD	none	Josh Best

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

Information in Support of the Analytical Results

Our Ref 24-12044
Client Ref ~ GEO2022-5495
Contract ~ WATERSEDGE, WHITEHAVEN

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2350369	PLOT 13 0.10 SOIL	10/06/24	GJ 250ml, PT 1L		
2350370	PLOT 13 0.30 SOIL	10/06/24	GJ 250ml, PT 1L		
2350371	PLOT 15 0.10 SOIL	10/06/24	GJ 250ml, PT 1L		
2350372	PLOT 15 0.30 SOIL	10/06/24	GJ 250ml, PT 1L		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

***** -not accredited.

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

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

Lab Ref 24-11468
GEO Ref ~ GEO2022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

					Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
				Lab No	2346458	**GAC**	**GAC Exceeded?**	**GAC Ref:**
				Sample ID ~	PLOT 12			
				Depth ~	0.30			
				Other ID ~				
				Sample Type ~	Sub-Soil			
Metals		**LOD**	**Units**					
Arsenic	DETSC 2301#	0.2	mg/kg	10	37	No	LQM S4UL
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	11	No	LQM S4UL
Chromium III	DETSC 2301*	0.15	mg/kg	17	910	No	LQM S4UL
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	6	No	LQM S4UL
Copper	DETSC 2301#	0.2	mg/kg	30	2400	No	LQM S4UL
Lead	DETSC 2301#	0.3	mg/kg	9.2	200	No	CL:AIRE C4SL
Mercury	DETSC 2325#	0.05	mg/kg	0.05	40	No	LQM S4UL
Nickel	DETSC 2301#	1	mg/kg	31	130	No	LQM S4UL
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	250	No	LQM S4UL
Zinc	DETSC 2301#	1	mg/kg	43	3700	No	LQM S4UL
Inorganics							
pH	DETSC 2008#		pH	8.7	N/A	N/A	N/A
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	34	No	ATRISK SSV
Total Organic Carbon	DETSC 2084#	0.5	%	1.7	-	-	-
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	100	N/A	N/A	BRE
PAHs							
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	420	No	LQM S4UL
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	510	No	LQM S4UL
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	400	No	LQM S4UL
Phenanthrene	DETSC 3301	0.1	mg/kg	0.2	220	No	LQM S4UL
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	5400	No	LQM S4UL
Fluoranthene	DETSC 3301	0.1	mg/kg	0.4	560	No	LQM S4UL
Pyrene	DETSC 3301	0.1	mg/kg	0.4	1200	No	LQM S4UL
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	0.1	11	No	LQM S4UL
Chrysene	DETSC 3301	0.1	mg/kg	0.1	22	No	LQM S4UL
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	0.1	3.3	No	LQM S4UL
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	0.2	93	No	LQM S4UL
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	0.1	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	36	No	LQM S4UL
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	340	No	LQM S4UL
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	-	-	-
Asbestos	N/A			NAD	Presence	No	-

Notes:

GAC = Generic Assessment Criteria

YES = GAC Exceeded

CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)

LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)

CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)

ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

Lab Ref 24-12044
GEO Ref ~ GEO2022-5495
Contract Title ~ WATERSEDGE, WHITEHAVEN

								Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
			Lab No	2350369	2350370	2350371	2350372	GAC	GAC Exceeded?	GAC Ref:
			Sample ID ~	PLOT 13	PLOT 13	PLOT 15	PLOT 15			
			Depth ~	0.10	0.30	0.10	0.30			
			Sample Type ~	TOPSOIL	SUBSOIL	TOPSOIL	SUBSOIL			
Metals	**Method**	**LOD**	**Units**							
Arsenic	DETSC 2301#	0.2	mg/kg	20	8.2	19	8.8	37	No	LQM S4UL
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1	0.3	0.2	11	No	LQM S4UL
Chromium III	DETSC 2301*	0.15	mg/kg	20	28	24	16	910	No	LQM S4UL
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	6	No	LQM S4UL
Copper	DETSC 2301#	0.2	mg/kg	20	26	24	21	2400	No	LQM S4UL
Lead	DETSC 2301#	0.3	mg/kg	52	17	55	16	200	No	CL:AIRE C4SL
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	0.08	0.06	40	No	LQM S4UL
Nickel	DETSC 2301#	1	mg/kg	16	22	20	17	130	No	LQM S4UL
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	250	No	LQM S4UL
Zinc	DETSC 2301#	1	mg/kg	88	61	97	58	3700	No	LQM S4UL
Inorganics										
pH	DETSC 2008#		pH	7.3	10.2	6.8	10.6	N/A	N/A	N/A
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.4	< 0.1	0.7	0.2	34	No	ATRISK SSV
Total Organic Carbon	DETSC 2084#	0.5	%	3.2	2.5	2.9	1.6	-	-	-
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	38	240	40	230	N/A	N/A	BRE
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	510	No	LQM S4UL
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	400	No	LQM S4UL
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	0.3	< 0.1	< 0.1	220	No	LQM S4UL
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1	5400	No	LQM S4UL
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.7	< 0.1	0.6	560	No	LQM S4UL
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.4	< 0.1	0.5	1200	No	LQM S4UL
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.2	< 0.1	0.2	11	No	LQM S4UL
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	0.2	22	No	LQM S4UL
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	3.3	No	LQM S4UL
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	93	No	LQM S4UL
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.1	< 0.1	0.3	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.5	36	No	LQM S4UL
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	340	No	LQM S4UL
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	2.7	-	-	-
Abestos	N/A			NAD	NAD	NAD	NAD	Presence	No	-

Notes:

GAC = Generic Assessment Criteria

YES = GAC Exceeded

CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)

LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)

CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)

ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

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GEO Environmental Engineering Ltd

Geotechnical and Environmental
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Telephone: 07883 440 186
Email: info@geoenvironmentalengineering.com
Website: www.geoenvironmentalengineering.com
Company No.: 07180338
VAT No.: GB 986617072

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"Without Site Investigation Ground is a Hazard"

Site Investigation Steering Group (SISG), 1993

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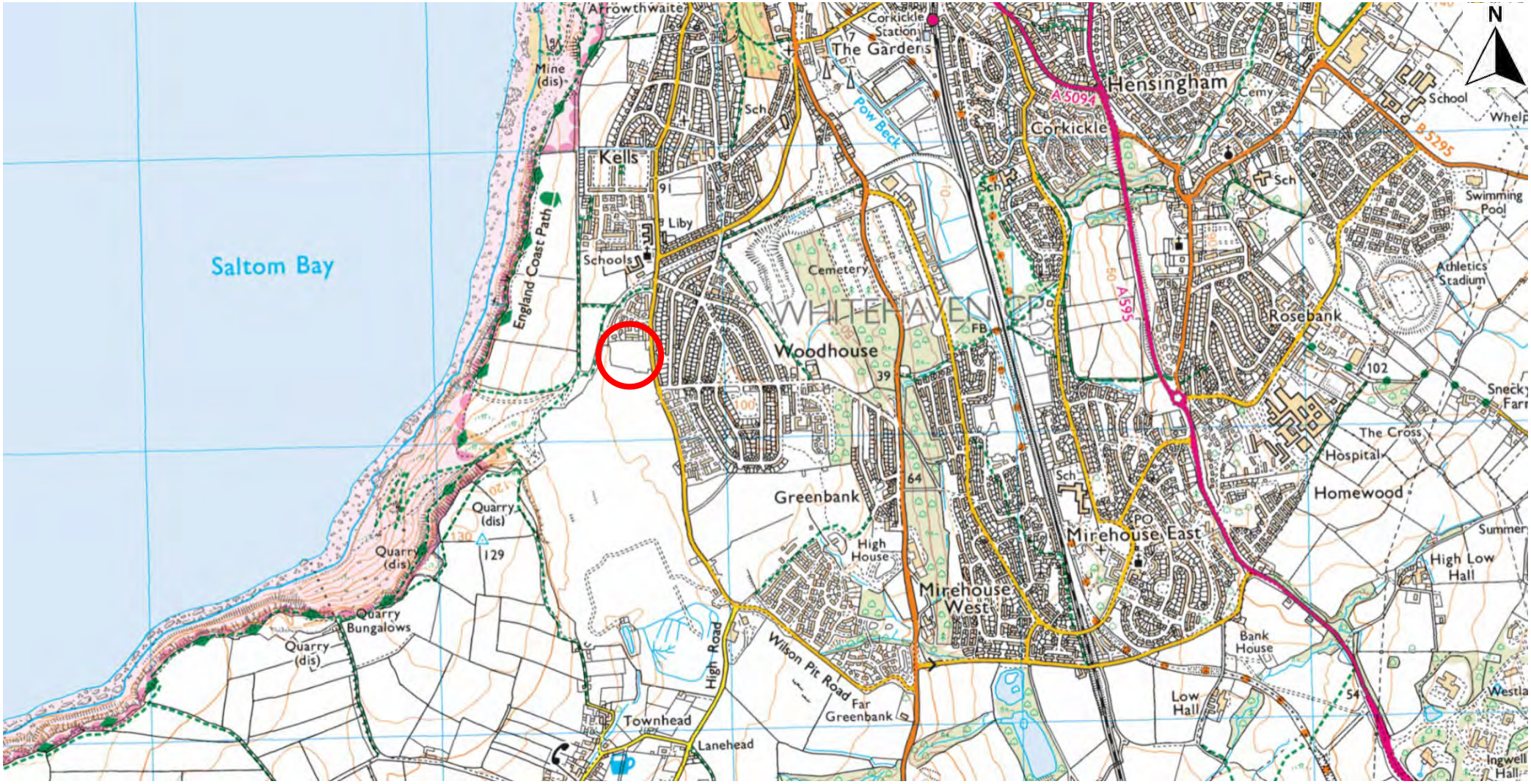


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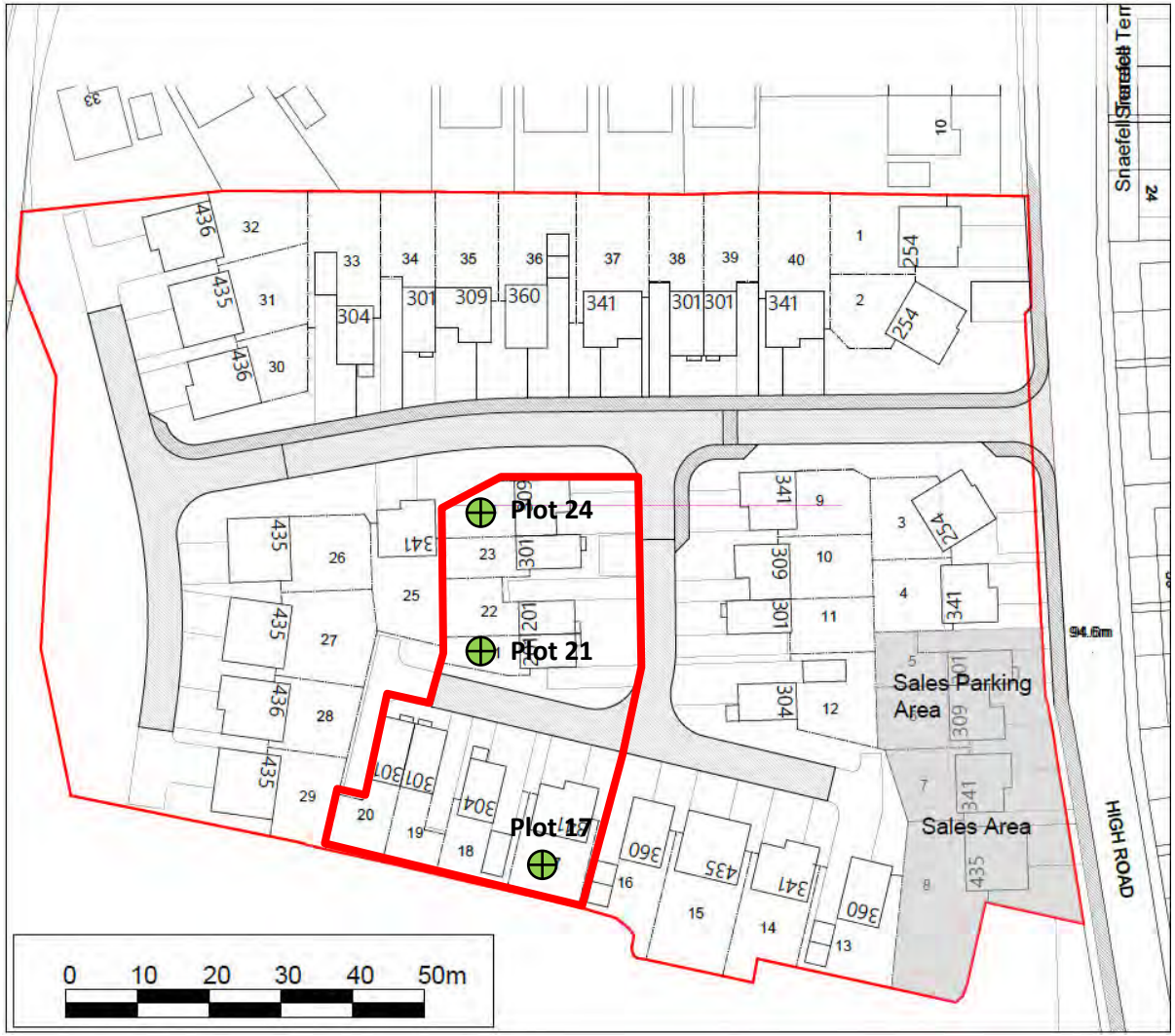
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KEY:

Validation Sampling Locations

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

Website: www.geoenvironmentalengineering.com
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Certificate of Analysis

Certificate Number	24-12735
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-12735
Client Reference ~	GEO2022-5495
Order No ~	(not supplied)
Contract Title ~	Watersedge, Whitehaven
Description	8 Soil samples.
Date Received	21-Jun-24
Date Started	21-Jun-24
Date Completed	26-Jun-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

ilac-MRA UKAS TESTING 2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

				Lab No	2354505	2354506	2354507	2354508	2354509	2354510
				Sample ID ~	Plot 17	Plot 17	Plot 19	Plot 19	Plot 21	Plot 21
				Depth ~	0.20	0.40	0.20	0.40	0.20	0.40
				Other ID ~						
				Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sampling Date ~	19/06/2024	19/06/2024	19/06/2024	19/06/2024	19/06/2024	19/06/2024
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	16	10	17	78	18	11
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1	0.4	0.2	0.3	0.1
Chromium III	DETSC 2301*	0.15	mg/kg	24	18	23	21	23	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29	25	24	25	24	32
Lead	DETSC 2301#	0.3	mg/kg	52	12	54	26	59	26
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	0.06	< 0.05	0.07	0.09
Nickel	DETSC 2301#	1	mg/kg	20	19	18	23	18	23
Selenium	DETSC 2301#	0.5	mg/kg	0.6	< 0.5	0.8	0.6	0.7	1.1
Zinc	DETSC 2301#	1	mg/kg	110	58	100	56	100	60
Inorganics										
pH	DETSC 2008#		pH	6.9	11.1	6.8	9.4	6.6	9.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.9	0.1	0.8	0.2	0.8	< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	2.5	2.2	2.8	1.0	5.2	2.0
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	72	240	54	160	58	330
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.6
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.9
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	4.1

Summary of Chemical Analysis
Soil Samples

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

			Lab No	2354511	2354512
			Sample ID ~	Plot 24	Plot 24
			Depth ~	0.20	0.40
			Other ID ~		
			Sample Type ~	SOIL	SOIL
			Sampling Date ~	19/06/2024	19/06/2024
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	17	15
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1
Chromium III	DETSC 2301*	0.15	mg/kg	29	22
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	24	30
Lead	DETSC 2301#	0.3	mg/kg	50	18
Mercury	DETSC 2325#	0.05	mg/kg	0.07	0.14
Nickel	DETSC 2301#	1	mg/kg	28	29
Selenium	DETSC 2301#	0.5	mg/kg	0.7	< 0.5
Zinc	DETSC 2301#	1	mg/kg	100	60
Inorganics					
pH	DETSC 2008#		pH	6.7	9.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.8	0.2
Total Organic Carbon	DETSC 2084#	0.5	%	2.7	2.7
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	46	180
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2354505	Plot 17 0.20	SOIL	NAD	none	Josh Best
2354506	Plot 17 0.40	SOIL	NAD	none	Josh Best
2354507	Plot 19 0.20	SOIL	NAD	none	Josh Best
2354508	Plot 19 0.40	SOIL	NAD	none	Josh Best
2354509	Plot 21 0.20	SOIL	NAD	none	Josh Best
2354510	Plot 21 0.40	SOIL	NAD	none	Josh Best
2354511	Plot 24 0.20	SOIL	NAD	none	Josh Best
2354512	Plot 24 0.40	SOIL	NAD	none	Josh Best

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

Information in Support of the Analytical Results

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract ~ Watersedge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2354505	Plot 17 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354506	Plot 17 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		
2354507	Plot 19 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354508	Plot 19 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		
2354509	Plot 21 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354510	Plot 21 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		
2354511	Plot 24 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354512	Plot 24 0.40 SOIL	19/06/24	GJ 250ml x2		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

***** -not accredited.

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

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

Lab Ref 24-12735
GEO Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

									Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
		Lab No	2354505	2354506	2354509	2354510	2354511	2354512	GAC	GAC Exceeded?	GAC Ref:
		Sample ID ~	Plot 17	Plot 17	Plot 21	Plot 21	Plot 24	Plot 24			
		Depth ~	0.20	0.40	0.20	0.40	0.20	0.40			
		Sample Type ~	TOPSOIL	SUBSOIL	TOPSOIL	SUBSOIL	TOPSOIL	SUBSOIL			
Metals	**LOD**	**Units**									
Arsenic	0.2	mg/kg	16	10	18	11	17	15	37	No	LQM S4UL
Cadmium	0.1	mg/kg	0.3	0.1	0.3	0.1	0.3	0.1	11	No	LQM S4UL
Chromium III	0.15	mg/kg	24	18	23	23	29	22	910	No	LQM S4UL
Chromium, Hexavalent	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6	No	LQM S4UL
Copper	0.2	mg/kg	29	25	24	32	24	30	2400	No	LQM S4UL
Lead	0.3	mg/kg	52	12	59	26	50	18	200	No	CL:AIRE C4SL
Mercury	0.05	mg/kg	0.07	< 0.05	0.07	0.09	0.07	0.14	40	No	LQM S4UL
Nickel	1	mg/kg	20	19	18	23	28	29	130	No	LQM S4UL
Selenium	0.5	mg/kg	0.6	< 0.5	0.7	1.1	0.7	< 0.5	250	No	LQM S4UL
Zinc	1	mg/kg	110	58	100	60	100	60	3700	No	LQM S4UL
Inorganics											
pH		pH	6.9	11.1	6.6	9.0	6.7	9.4	N/A	N/A	N/A
Cyanide, Total	0.1	mg/kg	0.9	0.1	0.8	< 0.1	0.8	0.2	34	No	ATRISK SSV
Total Organic Carbon	0.5	%	2.5	2.2	5.2	2.0	2.7	2.7	-	-	-
Sulphate Aqueous Extract as SO4 (2:1)	10	mg/l	72	240	58	330	46	180	N/A	N/A	BRE
PAHs											
Naphthalene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	510	No	LQM S4UL
Fluorene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	400	No	LQM S4UL
Phenanthrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.5	< 0.1	< 0.1	220	No	LQM S4UL
Anthracene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	5400	No	LQM S4UL
Fluoranthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.0	< 0.1	< 0.1	560	No	LQM S4UL
Pyrene	0.1	mg/kg	< 0.1	< 0.1	0.1	0.9	< 0.1	< 0.1	1200	No	LQM S4UL
Benzo(a)anthracene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	< 0.1	< 0.1	11	No	LQM S4UL
Chrysene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4	< 0.1	< 0.1	22	No	LQM S4UL
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	3.3	No	LQM S4UL
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	93	No	LQM S4UL
Benzo(a)pyrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	36	No	LQM S4UL
Dibenzo(a,h)anthracene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	340	No	LQM S4UL
PAH 16 Total	1.6	mg/kg	< 1.6	< 1.6	< 1.6	4.1	< 1.6	< 1.6	-	-	-
Asbestos			NAD	NAD	NAD	NAD	NAD	NAD	Presence	No	-

Notes:
GAC = Generic Assessment Criteria
YES = GAC Exceeded
CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)
LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)
CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)
ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

GEO Environmental Engineering

GEO Environmental Engineering Ltd

Geotechnical and Environmental
Consultants
&
Drilling Experts

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(GEO Standard Terms and Conditions Apply)

GEO Environmental Engineering

Gleeson Homes
Manelli House
Cowper Road
Gilwilly Industrial Estate
Penrith, Cumbria
CA11 9BN

Date: 28.06.2024
Project No: GEO2022-5495
Project Title: Saltom Bay Heights, Waters Edge, Whitehaven
Report Title: Plot 19 – Final Validation Report for Soil Remediation - Clean Cover System

Please find attached the following information which has been collated as evidence for the validation of the remediation works that have been completed on Plot 19 at Saltom Bay Heights, Water's Edge in Whitehaven, Cumbria.

- Site Location and Exploratory Hole Location Plans (Appendix I)
- Photographic Records (Appendix II)
- Chemical Laboratory Test Results (Appendix III)
- Chemical Assessment Sheet (Appendix IV)

Geo Environmental Engineering Ltd (GEO) were commissioned by the Client, Gleeson Homes to complete a validation report to confirm that the remediation works on residential Plot 19 have been completed to a satisfactory standard and that the works mitigate the risks to human health from contamination that was identified during the previous ground investigations by FWS. The site has been developed for residential end use with private gardens.

This report is suitable for submission as part of the discharge of relevant planning conditions.

Previous Reporting Overview:

The following documents have been completed for the site and should be read in conjunction with this report:

- Phase 1 and 2 Geoenvironmental Investigation (GI) for Residential Development on Land at Water's Edge, Whitehaven, ref: 8190OR03Rev02/March 2022
- Reclamation Method Statement (RMS) for the Proposed Residential Development on Land at Water's Edge, Whitehaven, ref: 8190OR04Rev2/October 2022

The ground investigation by FWS included the following comment regarding the ground conditions on the site.

> *"Granular and cohesive made ground of between 0.3 and 1.5 m thick was proven across the site. Locally in the southeast and southwest made ground extended to depths of up to 3.5 m bgl associated with the former tanks / silos and railway, respectively. Glacial Till was encountered beneath the made ground and was proven to extend to depths of up to 4.45 m bgl".*

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Company No.: 07180338
VAT No.: GB 986617072

The Reclamation Method Statement (RMS) by FWS included the following comment regarding contamination:

> *"With the exception of the localised hydrocarbon contamination associated with a former drainage pipe and the occurrence of localised asbestos contamination associated with relict/buried rail infrastructure which were both in the southwestern part of the site, no other specific significant contamination hotspots have been identified (only general contamination associated with the made ground onsite and localised/isolated visual/olfactory evidence and low concentrations of hydrocarbons in the vicinity of the former above ground tanks and relict drainage).*
>
> *Should additional visual or olfactory evidence of significant contamination be encountered either during the site inspection of the formation level (Section 6.1.3, above) or during the works, the Contractor is to liaise with the Environmental Engineer and implement an appropriate investigation strategy. The Local Authority shall be informed of the presence of such hotspots and will be presented with details of the proposed investigation and subsequent remediation scheme/mitigation measures to be adopted, as appropriate".*

The RMS recommended a Clean Cover System within the proposed Gardens. The depth of the Clean Cover was dependant on the location of the site as indicated below:

- General Plots / Gardens = 600 mm (Total Clean Cover)
  - 250 mm topsoil/growing medium.
  - 350 mm sub-soil.
- Southwestern Area Plots / Gardens = 1000 mm (Total Clean Cover)
  - 250 mm topsoil/growing medium.
  - 150 mm sub-soil.
  - 600 mm of inert compacted material or geotextile membrane that will act as a break layer for any potential asbestos contamination.
- Landscape / POS areas = 450 mm (Total Clean Cover)
  - 250 mm topsoil/growing medium.
  - 200 mm sub-soil.
  - (southwestern area only; additional 600 mm of inert compacted material or geotextile membrane that will act as a break layer for any potential asbestos contamination).

FWS recommended validation of the thickness and chemical quality of the clean cover materials placed in garden areas by undertaking hand excavated trial pits through the clean cover. The RMS indicated that a sample of the topsoil and subsoil material should be obtained and tested to confirm acceptability at a frequency of 1 per 3 plots.

Imported Soils:

The Client has confirmed that the source of the topsoil and subsoil is from the residential site at Ashfield Road, Workington. GEO is familiar with the site and has undertaken laboratory analysis of the soils as part of a Human Health Risk Assessment. In summary, the site was predominantly greenfield and only localised areas of made ground were identified that were determined as unsuitable for a residential end use. These areas have been delineated and the materials kept separate for appropriate off-site disposal.

Based on the location of Plot 19 a Clean Cover System of at least 600mm is required in accordance with recommendations provided by FWS.

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Validation - Inspections and Testing:

Validation works were completed by GEO in line with the Remediation Strategy by FWS. A representative of GEO attended site on the 19th and 27th June 2024 to inspect the clean cover system. Inspection pits were completed in the rear gardens of Plot 19 to confirm the thickness of the clean cover system.

GEO encountered c.580mm of imported soil on this plot which was described as soft to firm brown sandy gravelly clay (sub-soil) and dark brown loamy sandy slightly gravelly soil with occasional cobbles (topsoil) at the surface.

Representative samples of the topsoil and subsoil were recovered from Plot 19.

The samples were recovered in an amber glass jars and were dispatched for chemical laboratory screening at Derwentside Environmental Testing Services Limited (DETS). The samples were scheduled to a range of potential contaminants in line with the RMS by FWS and included metals, cyanide, speciated PAH, pH and asbestos. As the source of the topsoil was greenfield with no evidence of contamination, the sample was not screened for petroleum hydrocarbons (TPH) or associated derivatives.

Photographs of the rear garden and the inspection pits are attached. The materials (topsoil and subsoil) appeared visually and texturally suitable with no anthropogenic materials.

The results of the chemical laboratory screening have been assessed against Generic Assessment Criteria (GAC) for a Residential Development with Plant Uptake End Use as part of a human health risk assessment.

The GAC have been selected from the following guidance documents:

- LQM/CIEH S4UL 2015 (Residential with Plant Uptake End Use).
- CL:AIRE Cat 4 Screening Levels C4SL (Residential with Plant Uptake End Use).
- Atkins ATRISK Screening Values (Residential with Consumption of Homegrown Produce).

A copy of the Chemical Assessment Sheet is attached which includes details of the assessment criteria for each chemical.

The topsoil from Plot 19 typically had low contaminant concentrations that did not exceed the assessment criteria for a ‘Residential Development with Plant Uptake End Use’ and no asbestos fibres were detected.

However, elevated arsenic was recorded in the sub-soil at 78mg/kg which exceeds the GAC value of 37mg/kg. The elevated arsenic is uncharacteristic of the material that has been imported to the site. Chemical testing of the imported sub-soils on other plots within the site typically indicates low arsenic concentrations. Therefore, this result is currently considered to be a localised exceedance.

The original subsoil sample from Plot 19 was retested by the laboratory, with the retest providing an arsenic concentration of 11mg/kg, which is well below the target concentration (GAC) and in the same range as the other test results previously obtained for the imported topsoil and subsoil elsewhere on site. This indicates that the previous value of 78mg/kg was uncharacteristic of the materials tested and an outlier.

GEO also returned to site on the 27th June 2024 to undertake five additional inspection pits and recover five additional subsoil samples from Plot 19 for arsenic screening. The results of the testing have been reported to GEO on the 28th June 2024 (results enclosed). The results indicate low levels of arsenic that are all below the GAC (site values of 13mg/kg to 14mg/kg, consistent with other site findings). Therefore, the original value of 78mg/kg can be regarded as uncharacteristic for the subsoil placed and an outlier.

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VAT No.: GB 986617072

Conclusions:

GEO can confirm that the remediation works within Plot 19 have generally been completed to a satisfactorily standard and in accordance with the RMS by FWS. The clean cover layer is of sufficient thickness and comprises topsoil and subsoil that is chemically suitable for use and do not pose a risk to the end user.

General Comments:

GEO is not responsible for the accuracy or completeness of third-party information and reports. The scope of works undertaken and reported was specifically requested by the Client. Any items not specifically mentioned cannot be assumed to be covered. The Client and Main Contractor are wholly responsible for ensuring the appropriate remediation of the site in accordance with the Remediation Strategy.

It is recommended that a "watching brief" and "observational technique" be applied to this site to ensure that if ground conditions appear to vary from those identified within the investigation reports, then advice should be sought from a suitably qualified and experienced Engineering Geologist, Geotechnical or Geo-Environmental Engineer.

The conclusions and recommendations presented within this report are considered reasonable based on the available information. However, these cannot be guaranteed to gain regulatory approval. Therefore, the report should be passed to the appropriate regulatory authorities and/ or other key stakeholders, including warranty providers in order to seek their approval of the findings prior to hand over and occupation of the buildings.

I trust the above and attached is to your satisfaction and if you have any questions or queries then please call or email.

Yours Faithfully



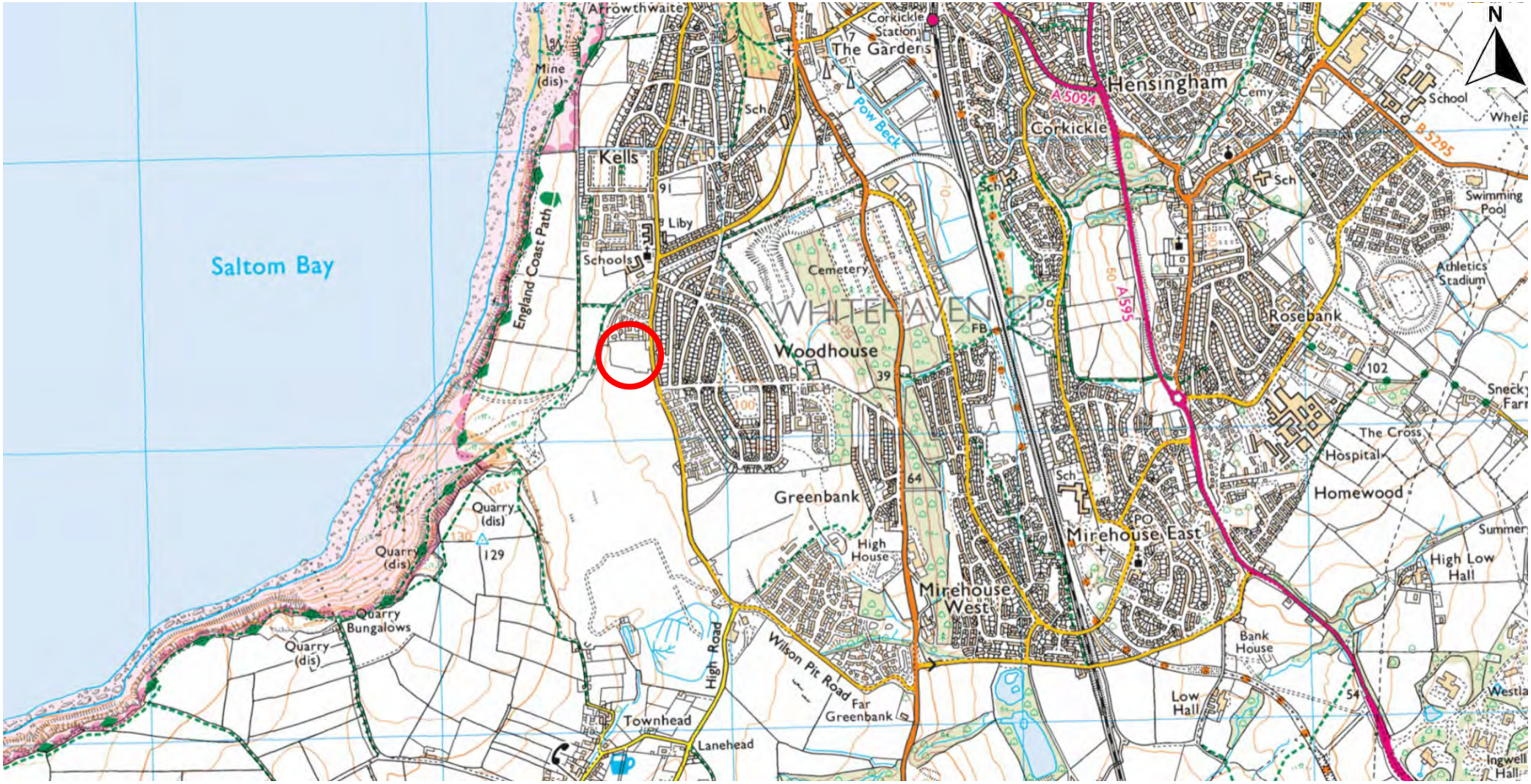
……

James Brock *B.Sc (Hons), M.Sc*
Associate – Geo Environmental Engineering Ltd
Tel: 07557 446 043

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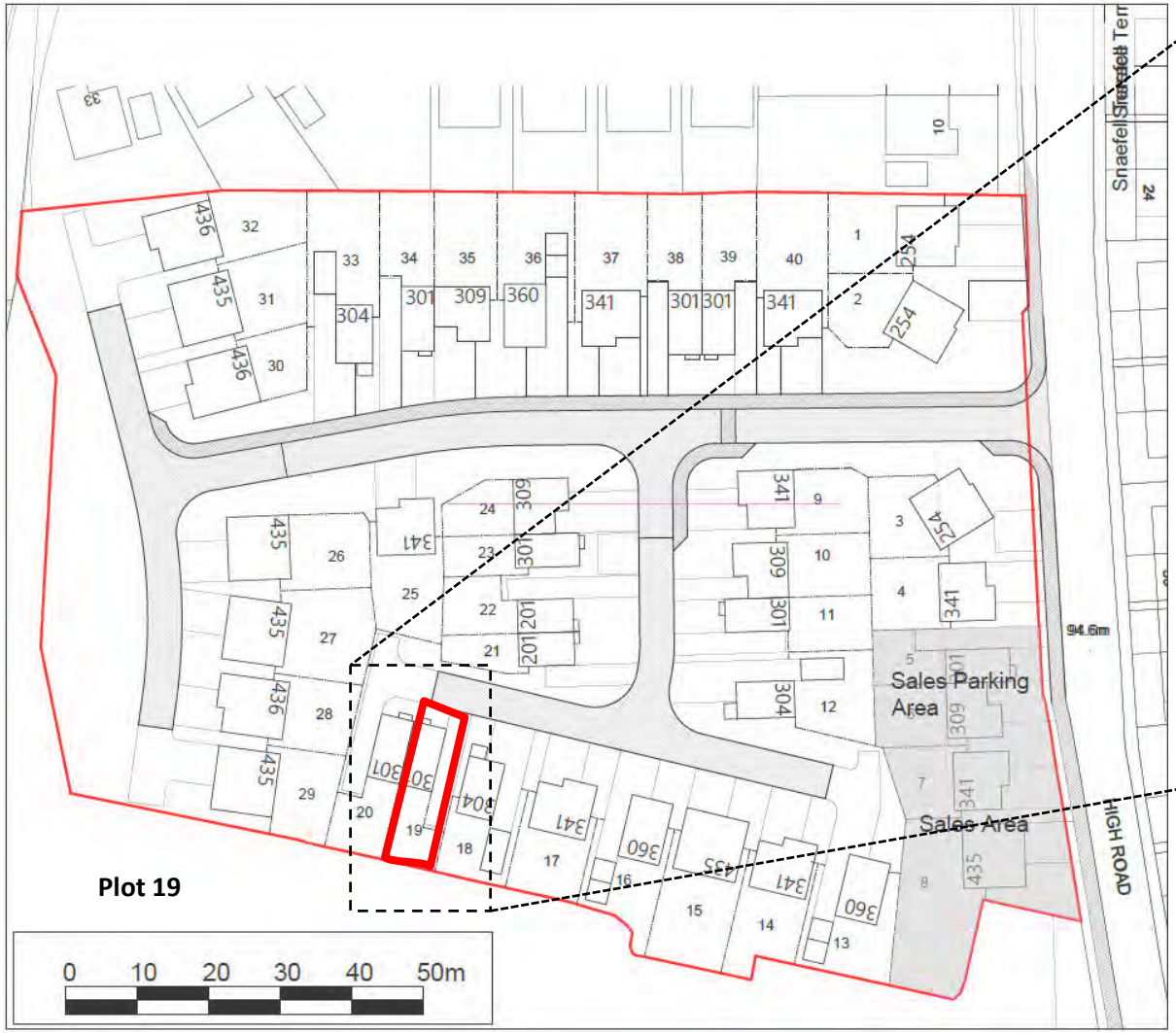
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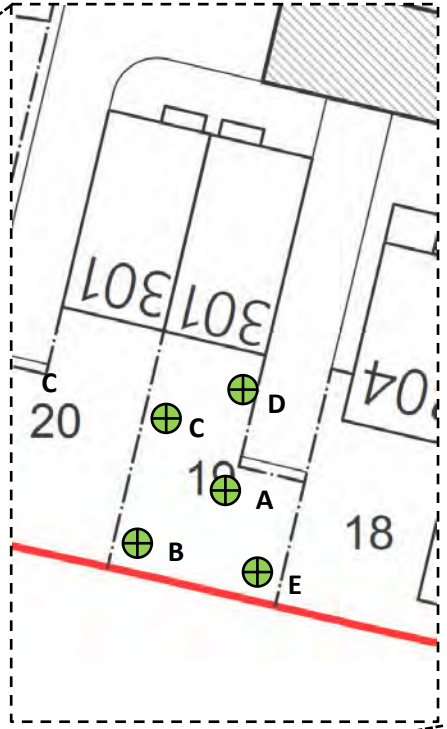
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KEY:

⊕ **Supplementary Validation Sampling Locations**

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

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Telephone: 07883 440 186

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

Lab Ref 24-12735
GEO Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

Generic Assessment Criteria
Residential With Plant Uptake
2.5% SOM

			Lab No	2354507	2354508	GAC	GAC Exceeded?	GAC Ref:
			Sample ID ~	Plot 19	Plot 19			
			Depth ~	0.20	0.40			
			Sample Type ~	TOPSOIL	SUBSOIL			
Metals	**LOD**	**Units**						
Arsenic	0.2	mg/kg		17	78	37	YES	LQM S4UL
Cadmium	0.1	mg/kg		0.4	0.2	11	No	LQM S4UL
Chromium III	0.15	mg/kg		23	21	910	No	LQM S4UL
Chromium, Hexavalent	1	mg/kg		< 1.0	< 1.0	6	No	LQM S4UL
Copper	0.2	mg/kg		24	25	2400	No	LQM S4UL
Lead	0.3	mg/kg		54	26	200	No	CL:AIRE C4SL
Mercury	0.05	mg/kg		0.06	< 0.05	40	No	LQM S4UL
Nickel	1	mg/kg		18	23	130	No	LQM S4UL
Selenium	0.5	mg/kg		0.8	0.6	250	No	LQM S4UL
Zinc	1	mg/kg		100	56	3700	No	LQM S4UL
Inorganics								
pH		pH		6.8	9.4	N/A	N/A	N/A
Cyanide, Total	0.1	mg/kg		0.8	0.2	34	No	ATRISK SSV
Total Organic Carbon	0.5	%		2.8	1.0	-	-	-
Sulphate Aqueous Extract as SO4 (2:1)	10	mg/l		54	160	N/A	N/A	BRE
PAHs								
Naphthalene	0.1	mg/kg		< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	0.1	mg/kg		< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	0.1	mg/kg		< 0.1	< 0.1	510	No	LQM S4UL
Fluorene	0.1	mg/kg		< 0.1	< 0.1	400	No	LQM S4UL
Phenanthrene	0.1	mg/kg		< 0.1	< 0.1	220	No	LQM S4UL
Anthracene	0.1	mg/kg		< 0.1	< 0.1	5400	No	LQM S4UL
Fluoranthene	0.1	mg/kg		< 0.1	< 0.1	560	No	LQM S4UL
Pyrene	0.1	mg/kg		< 0.1	< 0.1	1200	No	LQM S4UL
Benzo(a)anthracene	0.1	mg/kg		< 0.1	< 0.1	11	No	LQM S4UL
Chrysene	0.1	mg/kg		< 0.1	< 0.1	22	No	LQM S4UL
Benzo(b)fluoranthene	0.1	mg/kg		< 0.1	< 0.1	3.3	No	LQM S4UL
Benzo(k)fluoranthene	0.1	mg/kg		< 0.1	< 0.1	93	No	LQM S4UL
Benzo(a)pyrene	0.1	mg/kg		< 0.1	< 0.1	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	0.1	mg/kg		< 0.1	< 0.1	36	No	LQM S4UL
Dibenzo(a,h)anthracene	0.1	mg/kg		< 0.1	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	0.1	mg/kg		< 0.1	< 0.1	340	No	LQM S4UL
PAH 16 Total	1.6	mg/kg		< 1.6	< 1.6	-	-	-
Asbestos				NAD	NAD	Presence	No	-

Notes:
GAC = Generic Assessment Criteria
YES = GAC Exceeded
CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)
LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)
CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)
ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

Certificate of Analysis

Certificate Number	24-12735
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-12735
Client Reference ~	GEO2022-5495
Order No ~	(not supplied)
Contract Title ~	Watersedge, Whitehaven
Description	8 Soil samples.
Date Received	21-Jun-24
Date Started	21-Jun-24
Date Completed	26-Jun-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

ilac-MRA UKAS TESTING 2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

				Lab No	2354505	2354506	2354507	2354508	2354509	2354510
				Sample ID ~	Plot 17	Plot 17	Plot 19	Plot 19	Plot 21	Plot 21
				Depth ~	0.20	0.40	0.20	0.40	0.20	0.40
				Other ID ~						
				Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sampling Date ~	19/06/2024	19/06/2024	19/06/2024	19/06/2024	19/06/2024	19/06/2024
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	16	10	17	78	18	11
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1	0.4	0.2	0.3	0.1
Chromium III	DETSC 2301*	0.15	mg/kg	24	18	23	21	23	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29	25	24	25	24	32
Lead	DETSC 2301#	0.3	mg/kg	52	12	54	26	59	26
Mercury	DETSC 2325#	0.05	mg/kg	0.07	< 0.05	0.06	< 0.05	0.07	0.09
Nickel	DETSC 2301#	1	mg/kg	20	19	18	23	18	23
Selenium	DETSC 2301#	0.5	mg/kg	0.6	< 0.5	0.8	0.6	0.7	1.1
Zinc	DETSC 2301#	1	mg/kg	110	58	100	56	100	60
Inorganics										
pH	DETSC 2008#		pH	6.9	11.1	6.8	9.4	6.6	9.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.9	0.1	0.8	0.2	0.8	< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	2.5	2.2	2.8	1.0	5.2	2.0
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	72	240	54	160	58	330
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.6
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.9
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	4.1

Summary of Chemical Analysis
Soil Samples

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

			Lab No	2354511	2354512
			Sample ID ~	Plot 24	Plot 24
			Depth ~	0.20	0.40
			Other ID ~		
			Sample Type ~	SOIL	SOIL
			Sampling Date ~	19/06/2024	19/06/2024
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	17	15
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.1
Chromium III	DETSC 2301*	0.15	mg/kg	29	22
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	24	30
Lead	DETSC 2301#	0.3	mg/kg	50	18
Mercury	DETSC 2325#	0.05	mg/kg	0.07	0.14
Nickel	DETSC 2301#	1	mg/kg	28	29
Selenium	DETSC 2301#	0.5	mg/kg	0.7	< 0.5
Zinc	DETSC 2301#	1	mg/kg	100	60
Inorganics					
pH	DETSC 2008#		pH	6.7	9.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.8	0.2
Total Organic Carbon	DETSC 2084#	0.5	%	2.7	2.7
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	46	180
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2354505	Plot 17 0.20	SOIL	NAD	none	Josh Best
2354506	Plot 17 0.40	SOIL	NAD	none	Josh Best
2354507	Plot 19 0.20	SOIL	NAD	none	Josh Best
2354508	Plot 19 0.40	SOIL	NAD	none	Josh Best
2354509	Plot 21 0.20	SOIL	NAD	none	Josh Best
2354510	Plot 21 0.40	SOIL	NAD	none	Josh Best
2354511	Plot 24 0.20	SOIL	NAD	none	Josh Best
2354512	Plot 24 0.40	SOIL	NAD	none	Josh Best

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

Information in Support of the Analytical Results

Our Ref 24-12735
Client Ref ~ GEO2022-5495
Contract ~ Watersedge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2354505	Plot 17 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354506	Plot 17 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		
2354507	Plot 19 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354508	Plot 19 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		
2354509	Plot 21 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354510	Plot 21 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		
2354511	Plot 24 0.20 SOIL	19/06/24	GJ 250ml, PT 1L		
2354512	Plot 24 0.40 SOIL	19/06/24	GJ 250ml x2		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

***** -not accredited.

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

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Certificate of Analysis

Certificate Number	24-13102
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-13102
Client Reference ~	GEO2022-5495
Order No ~	(not supplied)
Contract Title ~	Watersedge, Whitehaven
Description	One Soil sample.
Date Received	21-Jun-24
Date Started	26-Jun-24
Date Completed	28-Jun-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-13102
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

Lab No	2356538
Sample ID ~	Plot 19
Depth ~	0.40
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	19/06/2024
Sampling Time ~	n/s

Test	Method	LOD	Units	
Metals				
Arsenic	DETSC 2301#	0.2	mg/kg	11

Symbol key at end of report

Information in Support of the Analytical Results

Our Ref 24-13102
Client Ref ~ GEO2022-5495
Contract ~ Watersedge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2356538	Plot 19 0.40 SOIL	19/06/24	GJ 250ml, PT 1L		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

***** -not accredited.

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

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Certificate of Analysis

Certificate Number	24-13177
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-13177
Client Reference ~	GEO2022-5495
Order No ~	(not supplied)
Contract Title ~	Watersedge, Whitehaven
Description	5 Soil samples.
Date Received	27-Jun-24
Date Started	27-Jun-24
Date Completed	28-Jun-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-13177
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

			Lab No	2356960	2356961	2356962	2356963	2356964
			Sample ID ~	Plot 19 A	Plot 19 B	Plot 19 C	Plot 19 D	Plot 19 E
			Depth ~					
			Other ID ~					
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	27/06/2024	27/06/2024	27/06/2024	27/06/2024	27/06/2024
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Metals								
Arsenic	DETSC 2301#	0.2	mg/kg	13	13	14	13	14

Information in Support of the Analytical Results

Our Ref 24-13177
Client Ref ~ GEO2022-5495
Contract ~ Watersedge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2356960	Plot 19 A SOIL	27/06/24	PT 1L		
2356961	Plot 19 B SOIL	27/06/24	PT 1L		
2356962	Plot 19 C SOIL	27/06/24	PT 1L		
2356963	Plot 19 D SOIL	27/06/24	PT 1L		
2356964	Plot 19 E SOIL	27/06/24	PT 1L		

Key: P-Plastic T-Tub

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

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

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

Disposal

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

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

Key:

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

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t/f -to follow.

nd -not detected.

End of Report

GEO Environmental Engineering Ltd
North West (Registered Office):
Heron House, 31 Casshow Way, Cockermouth, Cumbria, CA13 9PL
North East:
Office 16, The Eagle Building, 201 High Street East, Sunderland, SR1 2AX

Telephone: 07883 440 186
Email: info@geoenvironmentalengineering.com
Website: www.geoenvironmentalengineering.com
Company No.: 07180338
VAT No.: GB 986617072

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"Without Site Investigation Ground is a Hazard"

Site Investigation Steering Group (SISG), 1993

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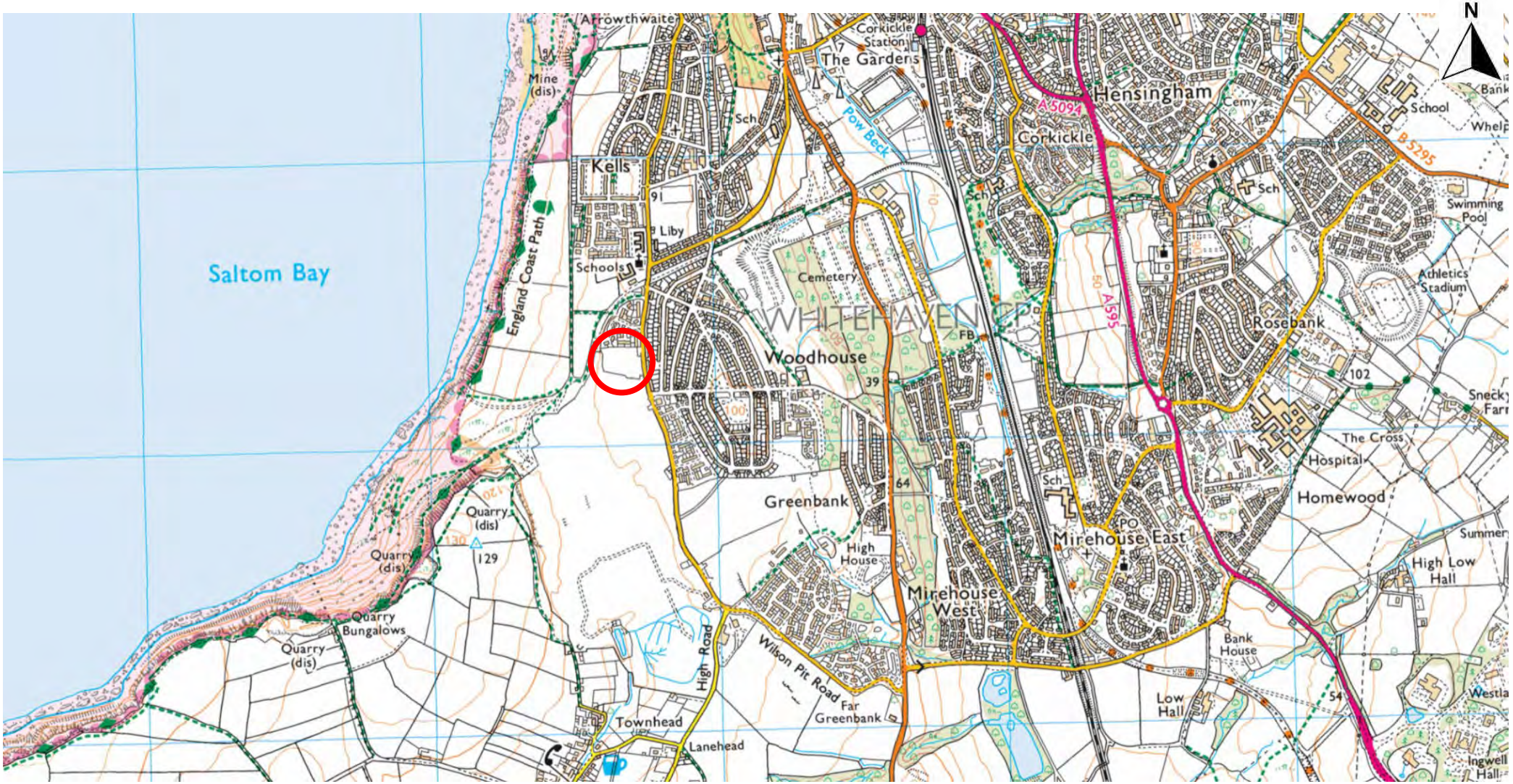


"Without Site Investigation Ground is a Hazard" *Site Investigation Steering Group (SISG), 1993*

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GEO
Environmental Engineering



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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186

GEO
Environmental Engineering



KEY:

⊕ **Validation Sampling Locations**

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186

GEO
Environmental Engineering









Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186

Certificate of Analysis

Certificate Number	24-19172
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-19172
Client Reference ~	GEO2022-5495
Order No ~	PO755057
Contract Title ~	Watersgate, Whitehaven
Description	4 Soil samples.
Date Received	10-Sep-24
Date Started	10-Sep-24
Date Completed	16-Sep-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-19172
Client Ref ~ GEO2022-5495
Contract Title ~ Watersgate, Whitehaven

				Lab No	2390978	2390979	2390980	2390981
				Sample ID ~	PLOT 25	PLOT 25	PLOT 33	PLOT 33
				Depth ~	0.10	0.40	0.10	0.40
				Other ID ~				
				Sample Type ~	SOIL	SOIL	SOIL	SOIL
				Sampling Date ~	06/09/2024	06/09/2024	06/09/2024	06/09/2024
				Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Metals								
Arsenic	DETSC 2301#	0.2	mg/kg	14	10	10	9.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.1	0.1	< 0.1
Chromium III	DETSC 2301*	0.15	mg/kg	17	14	14	14
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	20	14	14	20
Lead	DETSC 2301#	0.3	mg/kg	54	49	49	10
Mercury	DETSC 2325#	0.05	mg/kg	0.08	< 0.05	0.07	< 0.05
Nickel	DETSC 2301#	1	mg/kg	15	12	12	22
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	73	58	58	38
Inorganics								
pH	DETSC 2008#		pH	6.7	9.4	6.1	8.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.8	0.1	0.9	< 0.1
Total Organic Carbon	DETSC 2084#	0.5	%	3.0	0.9	3.3	0.9
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	37	100	29	62
PAHs								
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-19172
Client Ref ~ GEO2022-5495
Contract Title ~ Watersgate, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2390978	PLOT 25 0.10	SOIL	NAD	none	Pierce Booth
2390979	PLOT 25 0.40	SOIL	NAD	none	Pierce Booth
2390980	PLOT 33 0.10	SOIL	NAD	none	Pierce Booth
2390981	PLOT 33 0.40	SOIL	NAD	none	Pierce Booth

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

Information in Support of the Analytical Results

Our Ref 24-19172
Client Ref ~ GEO2022-5495
Contract ~ Watersgate, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2390978	PLOT 25 0.10 SOIL	06/09/24	GJ 250ml, PT 1L		
2390979	PLOT 25 0.40 SOIL	06/09/24	GJ 250ml, PT 1L		
2390980	PLOT 33 0.10 SOIL	06/09/24	GJ 250ml, PT 1L		
2390981	PLOT 33 0.40 SOIL	06/09/24	GJ 250ml, PT 1L		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

DETS Ref 24-19172
GEO Ref ~ GEO2022-5495
Contract Title ~ Watersgate, Whitehaven

Test	Method	LOD	Units	Lab No	2390978	2390979	2390980	2390981	GAC	GAC Exceeded?	GAC Ref:
				Sample ID ~	PLOT 25	PLOT 25	PLOT 33	PLOT 33	Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
				Depth ~	0.10	0.40	0.10	0.40			
				Sample Type ~	TOPSOIL	SUBSOIL	TOPSOIL	SUBSOIL			
Metals											
Arsenic	DETSC 2301#	0.2	mg/kg		14	10	10	9.4	37	No	LQM S4UL
Cadmium	DETSC 2301#	0.1	mg/kg		0.2	0.1	0.1	< 0.1	11	No	LQM S4UL
Chromium III	DETSC 2301*	0.15	mg/kg		17	14	14	14	910	No	LQM S4UL
Chromium, Hexavalent	DETSC 2204*	1	mg/kg		< 1.0	< 1.0	< 1.0	< 1.0	6	No	LQM S4UL
Copper	DETSC 2301#	0.2	mg/kg		20	14	14	20	2400	No	LQM S4UL
Lead	DETSC 2301#	0.3	mg/kg		54	49	49	10	200	No	CL:AIRE C4SL
Mercury	DETSC 2325#	0.05	mg/kg		0.08	< 0.05	0.07	< 0.05	40	No	LQM S4UL
Nickel	DETSC 2301#	1	mg/kg		15	12	12	22	130	No	LQM S4UL
Selenium	DETSC 2301#	0.5	mg/kg		< 0.5	< 0.5	< 0.5	< 0.5	250	No	LQM S4UL
Zinc	DETSC 2301#	1	mg/kg		73	58	58	38	3700	No	LQM S4UL
Inorganics											
pH	DETSC 2008#		pH		6.7	9.4	6.1	8.5	N/A	N/A	N/A
Cyanide, Total	DETSC 2130#	0.1	mg/kg		0.8	0.1	0.9	< 0.1	34	No	ATRISK SSV
Total Organic Carbon	DETSC 2084#	0.5	%		3.0	0.9	3.3	0.9	-	-	-
Sulphate Aqueous (2:1)	DETSC 2076#	10	mg/l		37	100	29	62	N/A	N/A	BRE
PAHs											
Naphthalene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	510	No	LQM S4UL
Fluorene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	400	No	LQM S4UL
Phenanthrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	220	No	LQM S4UL
Anthracene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	5400	No	LQM S4UL
Fluoranthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	560	No	LQM S4UL
Pyrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	1200	No	LQM S4UL
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	11	No	LQM S4UL
Chrysene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	22	No	LQM S4UL
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	3.3	No	LQM S4UL
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	93	No	LQM S4UL
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	36	No	LQM S4UL
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	340	No	LQM S4UL
PAH 16 Total	DETSC 3301	1.6	mg/kg		< 1.6	< 1.6	< 1.6	< 1.6	-	-	-
Asbestos	N/A				NAD	NAD	NAD	NAD	Presence	No	-

Notes:

GAC = Generic Assessment Criteria

YES = GAC Exceeded

CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)

LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)

CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)

ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

GEO Environmental Engineering

GEO Environmental Engineering Ltd

Geotechnical and Environmental
Consultants
&
Drilling Experts

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(GEO Standard Terms and Conditions Apply)

GEO Environmental Engineering Ltd
North West (Registered Office):
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Telephone: 07883 440 186
Email: info@geoenvironmentalengineering.com
Website: www.geoenvironmentalengineering.com
Company No.: 07180338
VAT No.: GB 986617072

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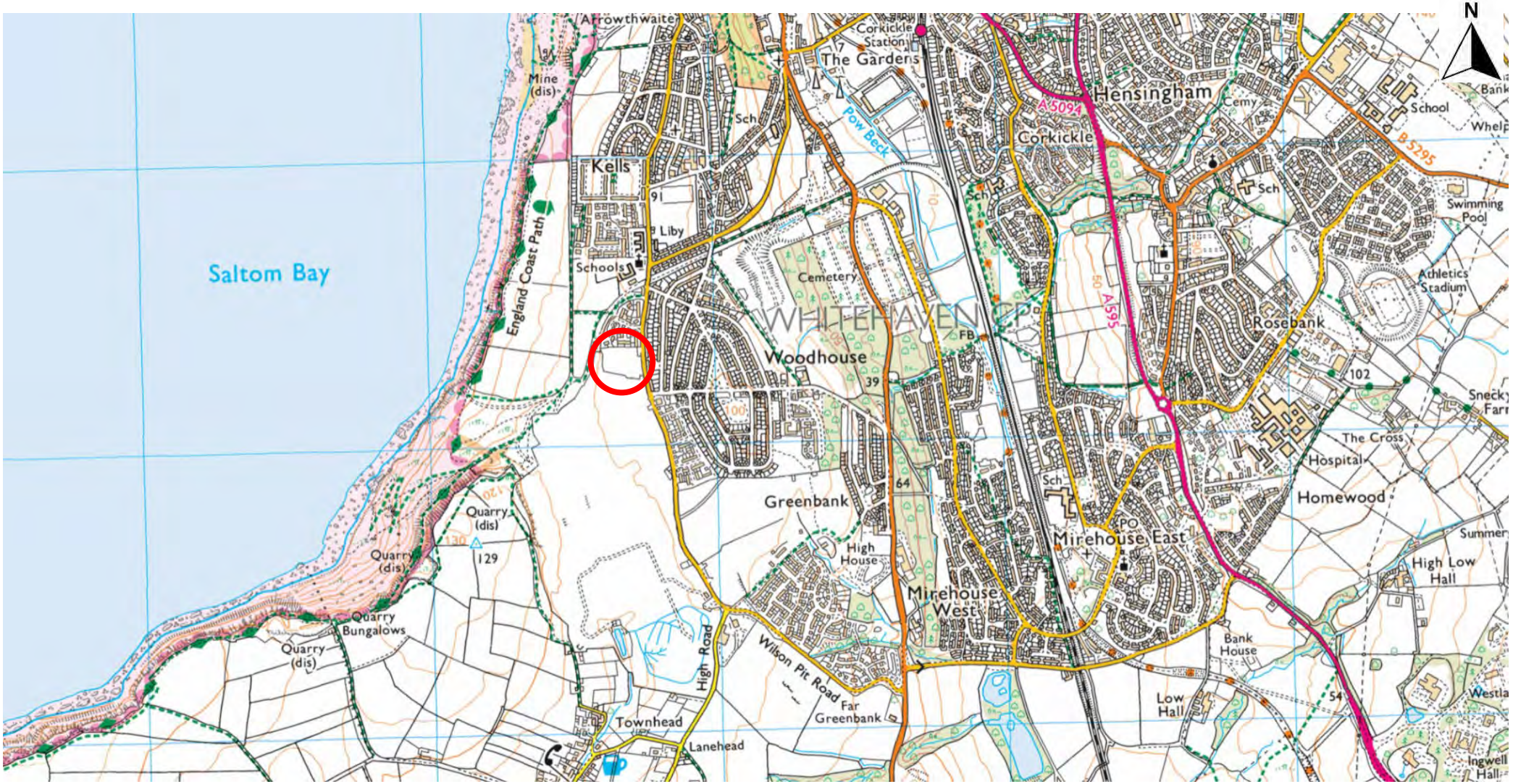
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GEO
Environmental Engineering



KEY:

⊕ **Validation Sampling Locations**

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

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Telephone: 07883 440 186

Certificate of Analysis

Certificate Number	24-24711
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	24-24711
Client Reference ~	GEO2022-5495
Order No ~	GEO2022-5495
Contract Title ~	Watersedge, Whitehaven
Description	4 Soil samples.
Date Received	14-Nov-24
Date Started	14-Nov-24
Date Completed	20-Nov-24
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager

ilac-MRA UKAS TESTING 2139

Summary of Chemical Analysis
Soil Samples

Our Ref 24-24711
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

			Lab No	2424156	2424157	2424158	2424159
			Sample ID ~	Plot 27	Plot 27	Plot 29	Plot 29
			Depth ~	0.10	0.40	0.10	0.40
			Other ID ~	Topsoil	Subsoil	Topsoil	Subsoil
			Sample Type ~	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	12/11/2024	12/11/2024	12/11/2024	12/11/2024
			Sampling Time ~	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	12	14	13	15
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.1	0.2	0.2
Chromium III	DETSC 2301*	0.15	mg/kg	17	18	18	19
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23	25	19	23
Lead	DETSC 2301#	0.3	mg/kg	18	37	92	57
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.08	0.08	0.11
Nickel	DETSC 2301#	1	mg/kg	23	23	15	16
Selenium	DETSC 2301#	0.5	mg/kg	0.6	0.7	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	53	61	63	79
Inorganics							
pH	DETSC 2008#		pH	8.4	8.5	6.7	8.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.1	0.6	0.5
Total Organic Carbon	DETSC 2084#	0.5	%	0.5	0.8	3.2	3.0
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	29	91	25	91
PAHs							
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6

Summary of Asbestos Analysis
Soil Samples

Our Ref 24-24711
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2424156	Plot 27 Topsoil 0.10	SOIL	NAD	none	Jason Barsby
2424157	Plot 27 Subsoil 0.40	SOIL	NAD	none	Jason Barsby
2424158	Plot 29 Topsoil 0.10	SOIL	NAD	none	Jason Barsby
2424159	Plot 29 Subsoil 0.40	SOIL	NAD	none	Jason Barsby

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

Information in Support of the Analytical Results

Our Ref 24-24711
Client Ref ~ GEO2022-5495
Contract ~ Watersedge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2424156	Plot 27 0.10 SOIL	12/11/24	GJ 250ml, PT 1L		
2424157	Plot 27 0.40 SOIL	12/11/24	GJ 250ml, PT 1L x2		
2424158	Plot 29 0.10 SOIL	12/11/24	GJ 250ml, PT 1L x2		
2424159	Plot 29 0.40 SOIL	12/11/24	GJ 250ml, PT 1L x2		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:

~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

DETS Ref 24-24711
GEO Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

								Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
			Lab No	2424156	2424157	2424158	2424159	GAC	GAC Exceeded?	GAC Ref:
			Sample ID ~	Plot 27	Plot 27	Plot 29	Plot 29			
			Depth ~	0.10	0.40	0.10	0.40			
			Sample Type ~	SOIL	SOIL	SOIL	SOIL			
Metals	**Method**	**LOD**	**Units**							
Arsenic	DETSC 2301#	0.2	mg/kg	12	14	13	15	37	No	LQM S4UL
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.1	0.2	0.2	11	No	LQM S4UL
Chromium III	DETSC 2301*	0.15	mg/kg	17	18	18	19	910	No	LQM S4UL
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	6	No	LQM S4UL
Copper	DETSC 2301#	0.2	mg/kg	23	25	19	23	2400	No	LQM S4UL
Lead	DETSC 2301#	0.3	mg/kg	18	37	92	57	200	No	CL:AIRE C4SL
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.08	0.08	0.11	40	No	LQM S4UL
Nickel	DETSC 2301#	1	mg/kg	23	23	15	16	130	No	LQM S4UL
Selenium	DETSC 2301#	0.5	mg/kg	0.6	0.7	< 0.5	< 0.5	250	No	LQM S4UL
Zinc	DETSC 2301#	1	mg/kg	53	61	63	79	3700	No	LQM S4UL
Inorganics										
pH	DETSC 2008#		pH	8.4	8.5	6.7	8.0	N/A	N/A	N/A
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.1	0.6	0.5	34	No	ATRISK SSV
Total Organic Carbon	DETSC 2084#	0.5	%	0.5	0.8	3.2	3.0	-	-	-
Sulphate Aqueous SO4 (2:1)	DETSC 2076#	10	mg/l	29	91	25	91	N/A	N/A	BRE
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	510	No	LQM S4UL
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	400	No	LQM S4UL
Phenanthrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	220	No	LQM S4UL
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	5400	No	LQM S4UL
Fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	560	No	LQM S4UL
Pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	1200	No	LQM S4UL
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	11	No	LQM S4UL
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	22	No	LQM S4UL
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	3.3	No	LQM S4UL
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	93	No	LQM S4UL
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	36	No	LQM S4UL
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	340	No	LQM S4UL
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	-	-	-
Asbestos	N/A			NAD	NAD	NAD	NAD	Presence	No	-

Notes:
GAC = Generic Assessment Criteria
YES = GAC Exceeded
CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)
LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)
CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)
ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

GEO Environmental Engineering

GEO Environmental Engineering Ltd

Geotechnical and Environmental
Consultants
&
Drilling Experts

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GEO Environmental Engineering

Gleeson Homes
Manelli House
Cowper Road
Gilwilly Industrial Estate
Penrith, Cumbria
CA11 9BN

Date: 06.03.2025
Project No: GEO2022-5495
Project Title: Saltom Bay Heights, Waters Edge, Whitehaven
Report Title: Plot 30 to 32 - Validation Report for Soil Remediation - Clean Cover System

Please find attached the following information which has been collated as evidence for the validation of the remediation works that have been completed on plots 30 to 32 at Saltom Bay Heights, Water's Edge in Whitehaven, Cumbria.

- Site Location and Exploratory Hole Location Plans (Appendix I)
- Photographic Records (Appendix II)
- Chemical Laboratory Test Results (Appendix III)
- Chemical Assessment Sheet (Appendix IV)

Geo Environmental Engineering Ltd (GEO) were commissioned by the Client, Gleeson Homes to complete a validation report to confirm that the remediation works on residential plots 30 to 32 has been completed to a satisfactory standard and that the works mitigate the risks to human health from contamination that was identified during the previous ground investigations by FWS. The site has been developed for residential end use with private gardens.

This report is suitable for submission as part of the discharge of relevant planning conditions.

Previous Reporting Overview:

The following documents have been completed for the site and should be read in conjunction with this report:

- Phase 1 and 2 Geoenvironmental Investigation (GI) for Residential Development on Land at Water's Edge, Whitehaven, ref: 8190OR03Rev02/March 2022
- Reclamation Method Statement (RMS) for the Proposed Residential Development on Land at Water's Edge, Whitehaven, ref: 8190OR04Rev2/October 2022

The ground investigation by FWS included the following comment regarding the ground conditions on the site.

> *"Granular and cohesive made ground of between 0.3 and 1.5 m thick was proven across the site. Locally in the southeast and southwest made ground extended to depths of up to 3.5 m bgl associated with the former tanks / silos and railway, respectively. Glacial Till was encountered beneath the made ground and was proven to extend to depths of up to 4.45m bgl".*

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Email: info@geoenvironmentalengineering.com
Website: www.geoenvironmentalengineering.com
Company No.: 07180338
VAT No.: GB 986617072

The Reclamation Method Statement (RMS) by FWS included the following comment regarding contamination:

> *"With the exception of the localised hydrocarbon contamination associated with a former drainage pipe and the occurrence of localised asbestos contamination associated with relict/buried rail infrastructure which were both in the southwestern part of the site, no other specific significant contamination hotspots have been identified (only general contamination associated with the made ground onsite and localised/isolated visual/olfactory evidence and low concentrations of hydrocarbons in the vicinity of the former above ground tanks and relict drainage).*
>
> *Should additional visual or olfactory evidence of significant contamination be encountered either during the site inspection of the formation level (Section 6.1.3, above) or during the works, the Contractor is to liaise with the Environmental Engineer and implement an appropriate investigation strategy. The Local Authority shall be informed of the presence of such hotspots and will be presented with details of the proposed investigation and subsequent remediation scheme/mitigation measures to be adopted, as appropriate".*

The RMS recommended a Clean Cover System within the proposed Gardens. The depth of the Clean Cover was dependant on the location of the site as indicated below:

- General Plots / Gardens = 600 mm (Total Clean Cover)
  - 250 mm topsoil/growing medium.
  - 350 mm sub-soil.

- Southwestern Area Plots / Gardens = 1000 mm (Total Clean Cover)
  - 250 mm topsoil/growing medium.
  - 150 mm sub-soil.
  - 600 mm of inert compacted material or geotextile membrane that will act as a break layer for any potential asbestos contamination.

- Landscape / POS areas = 450 mm (Total Clean Cover)
  - 250 mm topsoil/growing medium.
  - 200 mm sub-soil.
  - (southwestern area only; additional 600 mm of inert compacted material or geotextile membrane that will act as a break layer for any potential asbestos contamination).

FWS recommended validation of the thickness and chemical quality of the clean cover materials placed in garden areas by undertaking hand excavated trial pits through the clean cover. The RMS indicated that a sample of the topsoil and subsoil material should be obtained and tested to confirm acceptability at a frequency of 1 per 3 plots.

Imported Soils:

The Client has confirmed that the source of the topsoil and subsoil is from the residential site at Ashfield Road, Workington. GEO is familiar with the site and has undertaken laboratory analysis of the soils as part of a Human Health Risk Assessment. In summary, the site was predominantly greenfield and only localised areas of made ground were identified that were determined as unsuitable for a residential end use. These areas have been delineated and the materials kept separate for appropriate off-site disposal.

Based on the location of Plots 30 to 32, a Clean Cover System of at least 600mm is required for the rear gardens in accordance with recommendations provided by FWS.

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Company No.: 07180338
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Validation - Inspections and Testing:

Validation works were completed by GEO in line with the Remediation Strategy by FWS. A representative of GEO attended site on the 25 February 2025 to inspect the clean cover system. Inspection pits were completed in the rear gardens of Plot 31 to confirm the thickness of the clean cover system and to allow representative samples of the topsoil and subsoil to be recovered.

GEO encountered 700mm of imported soil on these plots which was described as soft to firm brown sandy gravelly clay (sub-soil) and dark brown loamy sandy slightly gravelly soil with occasional cobbles at the surface (topsoil).

Samples of the topsoil and sub-soil was recovered from both plots c.0.20m (topsoil) and at c.0.40m bgl (subsoil). The samples were recovered in an amber glass jar and were dispatched for chemical laboratory screening at Derwentside Environmental Testing Services Limited (DETS). The samples were scheduled to a range of potential contaminants in line with the Remediation Strategy by FWS and included metals, cyanide, speciated PAH, pH and asbestos. As the source of the topsoil was greenfield with no evidence of contamination, the sample was not screened for petroleum hydrocarbons (TPH) or associated derivatives.

Photographs of the rear gardens and the inspection pits are attached. The materials (topsoil and subsoil) appeared visually and texturally suitable with no anthropogenic materials.

The results of the chemical laboratory screening have been assessed against Generic Assessment Criteria (GAC) for a Residential Development with Plant Uptake End Use as part of a human health risk assessment.

The GAC have been selected from the following guidance documents:

- LQM/CIEH S4UL 2015 (Residential with Plant Uptake End Use).
- CL:AIRE Cat 4 Screening Levels C4SL (Residential with Plant Uptake End Use).
- Atkins ATRISK Screening Values (Residential with Consumption of Homegrown Produce).

A copy of the Chemical Assessment Sheet is attached which includes details of the assessment criteria for each chemical.

Both samples had low contaminant concentrations with none exceeding the assessment criteria for a 'Residential Development with Plant Uptake End Use' and no asbestos fibres were detected. Therefore, the imported soils within these plots does not pose a risk to human health (residents) and is considered chemically suitable for use in areas of private gardens and soft landscaping. In addition, phytotoxic elements (copper, nickel and zinc) are within the acceptable limits for topsoil.

Conclusions:

Based on the information provided above, GEO can confirm that the remediation works within Plots 30 to 32 has been completed to a satisfactorily standard and in accordance with RMS by FWS. The clean cover layer in the rear gardens is of sufficient thickness and comprises soils that are chemically suitable for use and do not pose a risk to the end user. Therefore, the risk to the end user (residents) from possible contamination in the made ground that was previously present at the surface has been mitigated within the plots.

General Comments:

GEO is not responsible for the accuracy or completeness of third-party information and reports. The scope of works undertaken and reported was specifically requested by the Client. Any items not specifically

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mentioned cannot be assumed to be covered. The Client and Main Contractor are wholly responsible for ensuring the appropriate remediation of the site in accordance with the Remediation Strategy.

It is recommended that a “watching brief” and “observational technique” be applied to this site to ensure that if ground conditions appear to vary from those identified within the investigation reports, then advice should be sought from a suitably qualified and experienced Engineering Geologist, Geotechnical or Geo-Environmental Engineer.

The conclusions and recommendations presented within this report are considered reasonable based on the available information. However, these cannot be guaranteed to gain regulatory approval. Therefore, the report should be passed to the appropriate regulatory authorities and/ or other key stakeholders, including warranty providers in order to seek their approval of the findings prior to hand over and occupation of the buildings.

I trust the above and attached is to your satisfaction and if you have any questions or queries then please call or email.

Yours Faithfully



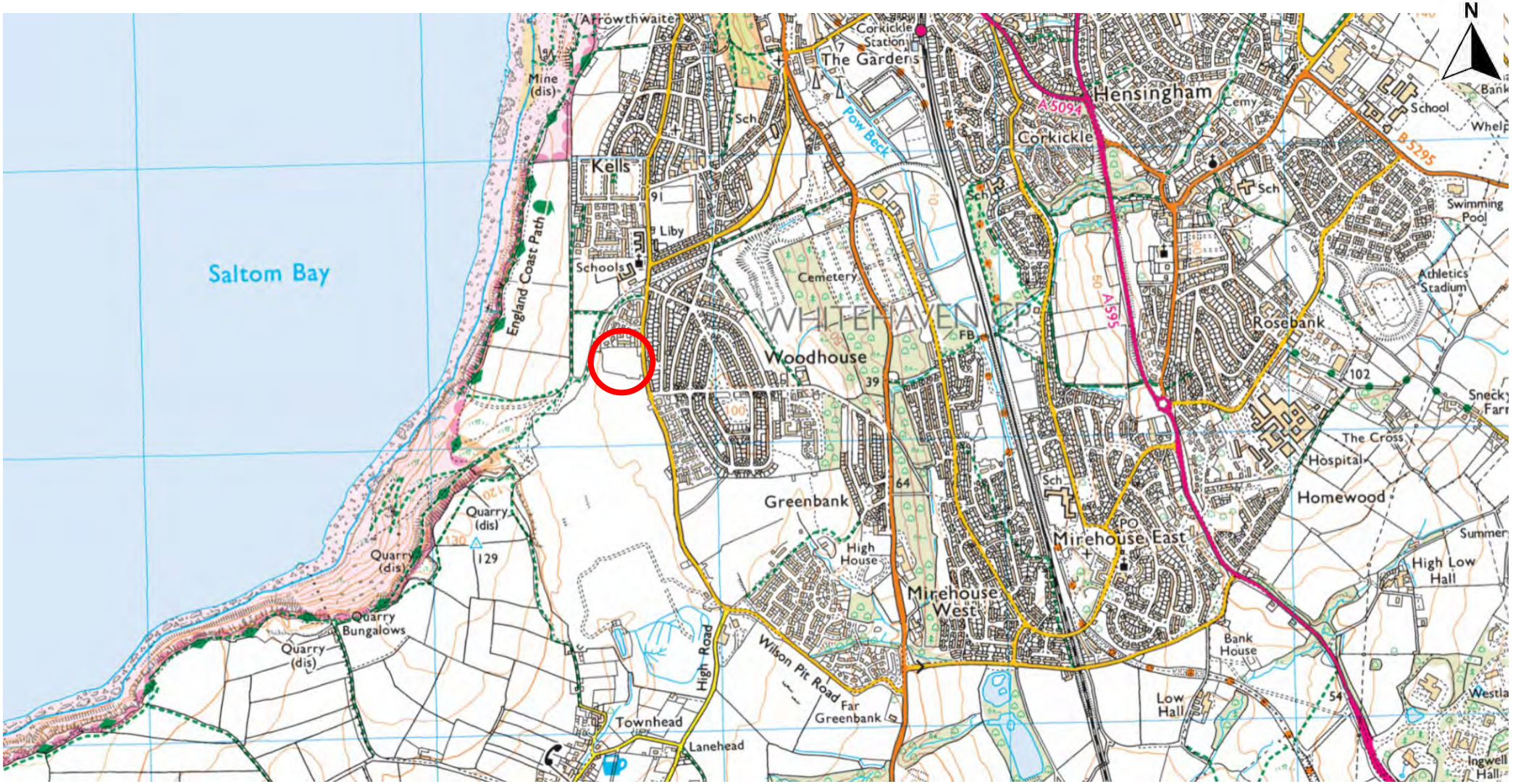
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Associate – Geo Environmental Engineering Ltd
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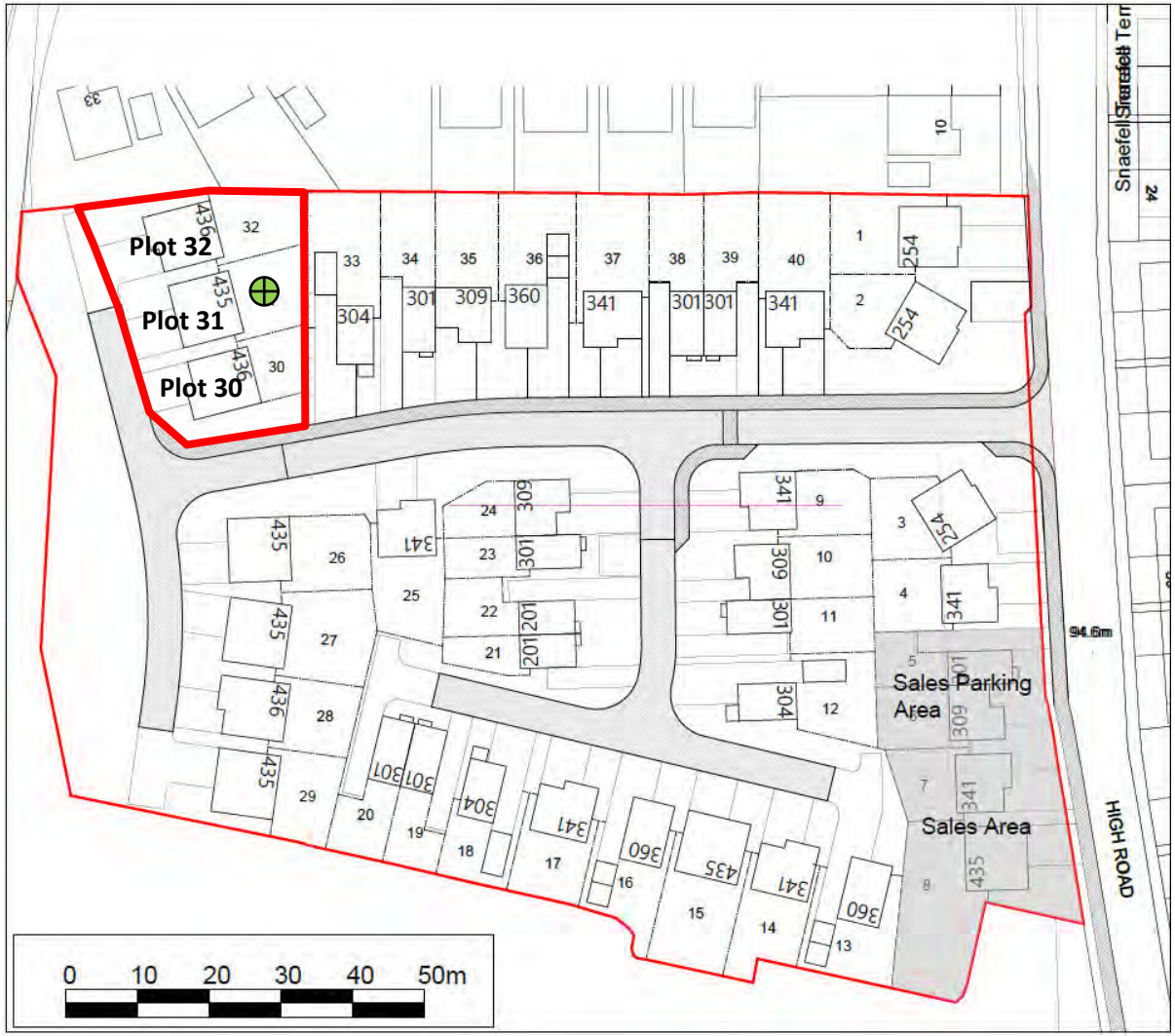
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KEY:

⊕ **Validation Sampling Locations**

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

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Certificate of Analysis

Certificate Number	25-04345
Issued:	
Client	GEO Environmental Engineering NW Office 31 Casshow Way Cockermouth Cumbria CA13 9FY
Our Reference	25-04345
Client Reference ~	GEO2022-5495
Order No ~	(not supplied)
Contract Title ~	Watersedge, Whitehaven
Description	2 Soil samples.
Date Received	27-Feb-25
Date Started	27-Feb-25
Date Completed	06-Mar-25
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Louise Cook
Contracts Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 25-04345
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

			Lab No	2470888	2470889
			Sample ID ~	Plot 31	Plot 31
			Depth ~	0.20	0.40
			Other ID ~		
			Sample Type ~	SOIL	SOIL
			Sampling Date ~	25/02/2025	25/02/2025
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	15	13
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	< 0.1
Chromium III	DETSC 2301*	0.15	mg/kg	22	18
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	21	26
Lead	DETSC 2301#	0.3	mg/kg	51	18
Mercury	DETSC 2325#	0.05	mg/kg	0.08	< 0.05
Nickel	DETSC 2301#	1	mg/kg	20	23
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	2.6
Zinc	DETSC 2301#	1	mg/kg	76	53
Inorganics					
pH	DETSC 2008#		pH	6.8	8.2
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6	0.2
Total Organic Carbon	DETSC 2084#	0.5	%	2.7	1.6
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	360	28
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	0.3
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	0.2
Phenanthrene	DETSC 3301	0.1	mg/kg	0.1	1.5
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.3
Fluoranthene	DETSC 3301	0.1	mg/kg	0.3	1.9
Pyrene	DETSC 3301	0.1	mg/kg	0.3	1.6
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.6
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	0.7
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.5
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.5
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.8
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.6
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	0.3
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	9.9

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-04345
Client Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2470888	Plot 31 0.20	SOIL	NAD	none	Jason Barsby
2470889	Plot 31 0.40	SOIL	NAD	none	Jason Barsby

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

Information in Support of the Analytical Results

Our Ref 25-04345
Client Ref ~ GEO2022-5495
Contract ~ Watersedge, Whitehaven

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2470888	Plot 31 0.20 SOIL	25/02/25	GJ 250ml, PT 1L		
2470889	Plot 31 0.40 SOIL	25/02/25	GJ 250ml, PT 1L		

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

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

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:

~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report

Geo Environmental Engineering Ltd
Chemical Assessment Sheet - Soils

DETS Ref 25-04345
GEO Ref ~ GEO2022-5495
Contract Title ~ Watersedge, Whitehaven

						Generic Assessment Criteria Residential With Plant Uptake 2.5% SOM		
			Lab No	2470888	2470889	GAC	GAC Exceeded?	GAC Ref:
			Sample ID ~	Plot 31	Plot 31			
			Depth ~	0.20	0.40			
			Sample Type ~	SOIL	SOIL			
Metals	**Method**	**LOD**	**Units**					
Arsenic	DETSC 2301#	0.2	mg/kg	15	13	37	No	LQM S4UL
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	< 0.1	11	No	LQM S4UL
Chromium III	DETSC 2301*	0.15	mg/kg	22	18	910	No	LQM S4UL
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	6	No	LQM S4UL
Copper	DETSC 2301#	0.2	mg/kg	21	26	2400	No	LQM S4UL
Lead	DETSC 2301#	0.3	mg/kg	51	18	200	No	CL:AIRE C4SL
Mercury	DETSC 2325#	0.05	mg/kg	0.08	< 0.05	40	No	LQM S4UL
Nickel	DETSC 2301#	1	mg/kg	20	23	130	No	LQM S4UL
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	2.6	250	No	LQM S4UL
Zinc	DETSC 2301#	1	mg/kg	76	53	3700	No	LQM S4UL
Inorganics								
pH	DETSC 2008#		pH	6.8	8.2	N/A	N/A	N/A
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.6	0.2	34	No	ATRISK SSV
Total Organic Carbon	DETSC 2084#	0.5	%	2.7	1.6	-	-	-
Sulphate Aqueous SO4 (2:1)	DETSC 2076#	10	mg/l	360	28	N/A	N/A	BRE
PAHs								
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	5.6	No	LQM S4UL
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	420	No	LQM S4UL
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	0.3	510	No	LQM S4UL
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	0.2	400	No	LQM S4UL
Phenanthrene	DETSC 3301	0.1	mg/kg	0.1	1.5	220	No	LQM S4UL
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.3	5400	No	LQM S4UL
Fluoranthene	DETSC 3301	0.1	mg/kg	0.3	1.9	560	No	LQM S4UL
Pyrene	DETSC 3301	0.1	mg/kg	0.3	1.6	1200	No	LQM S4UL
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.6	11	No	LQM S4UL
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	0.7	22	No	LQM S4UL
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.5	3.3	No	LQM S4UL
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	0.5	93	No	LQM S4UL
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.8	2.7	No	LQM S4UL
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	0.6	36	No	LQM S4UL
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1	0.28	No	LQM S4UL
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	0.3	340	No	LQM S4UL
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	9.9	-	-	-
Asbestos	N/A			NAD	NAD	Presence	No	-

Notes:
GAC = Generic Assessment Criteria
YES = GAC Exceeded
CLEA SGV = Clea Soil Guideline Value (Residential with Plant Uptake End Use based on 2.5% SOM)
LQM S4UL = LQM/CIEH 'Suitable 4 Use Levels' S4ULs (Residential with Plant Uptake End Use based on 2.5% SOM)
CL:AIRE C4SL = Category 4 Screening Levels (Residential with Plant Uptake End Use based on 2.5% SOM)
ATRISK SSV = Atkins Soil Screening Values (Residential with Consumption of Home Grown Produce at 1% SOM)

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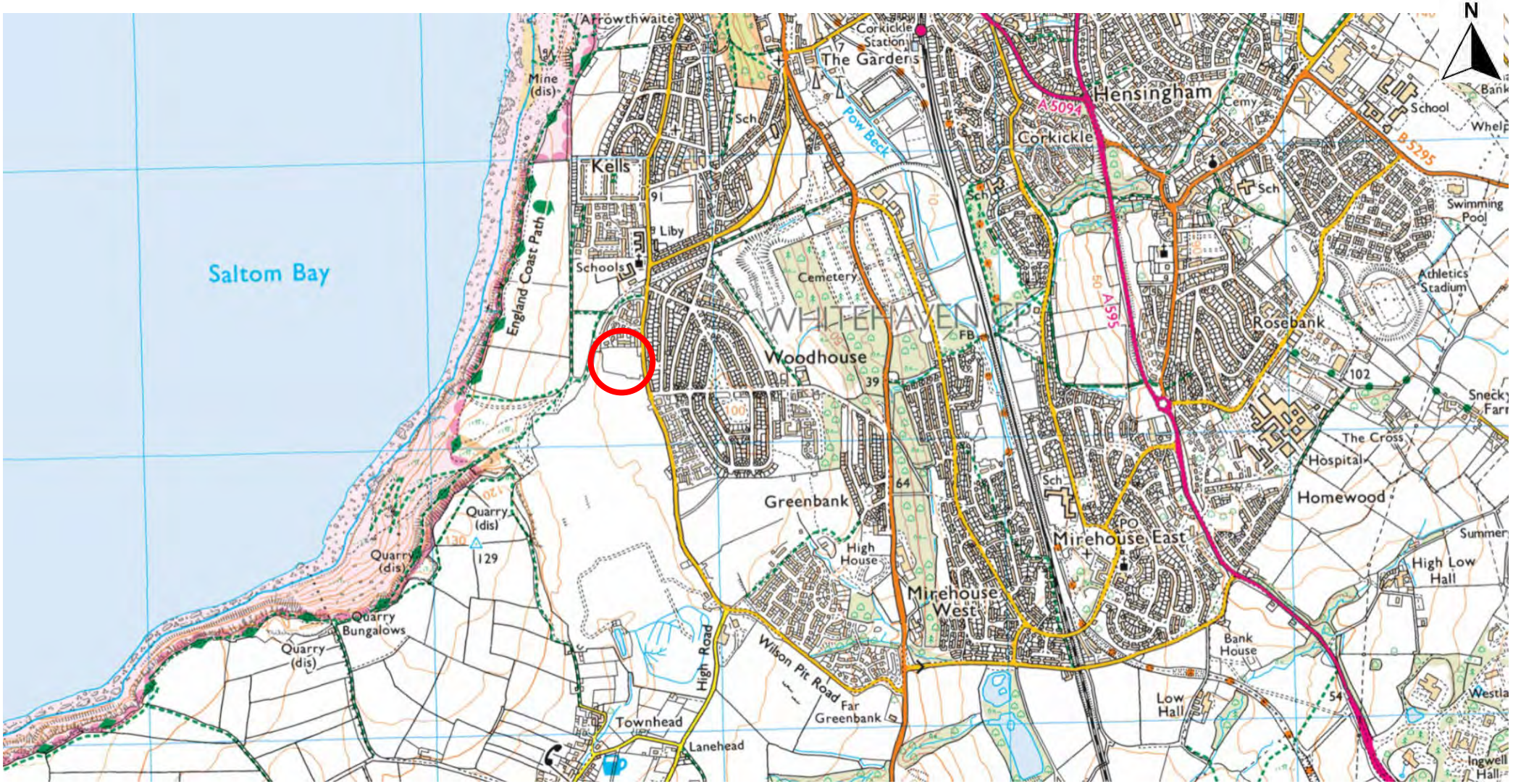
"Without Site Investigation Ground is a Hazard"

Site Investigation Steering Group (SISG), 1993

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KEY:

⊕ **Validation Sampling Locations**

Validation Area

*** Exploratory Hole Locations are approximate. Do Not Scale.**

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GEO Environmental Engineering

GEO Environmental Engineering Ltd

Geotechnical and Environmental
Consultants
&
Drilling Experts

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(GEO Standard Terms and Conditions Apply)

APPENDIX 4

GAS PROTECTION VALIDATION

GEO Environmental Engineering



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_____ *B.Sc.(Hons)*

_____ *B.Sc. (Hons), FGS.*

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-
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House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Find your local stockist



Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

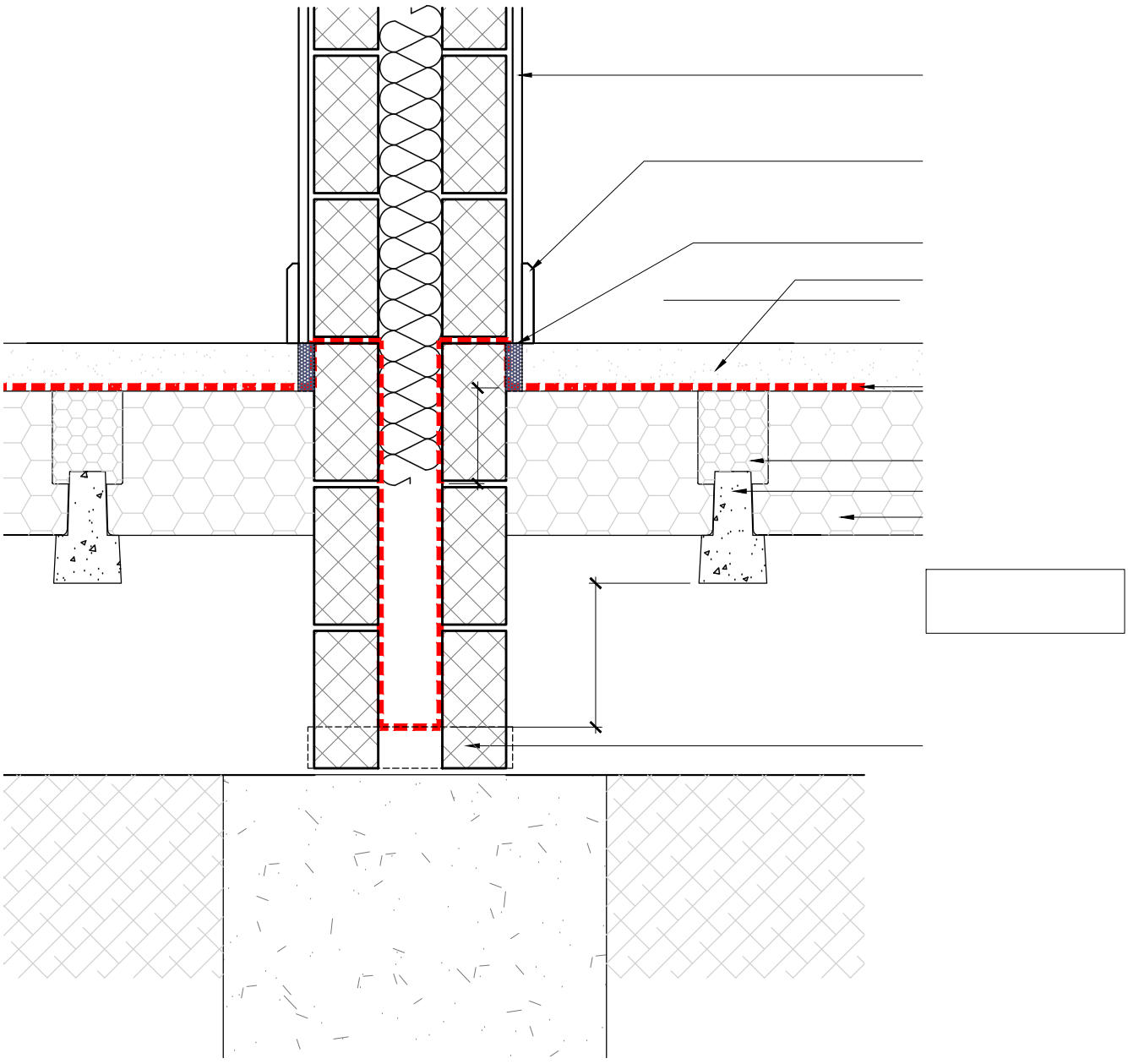
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

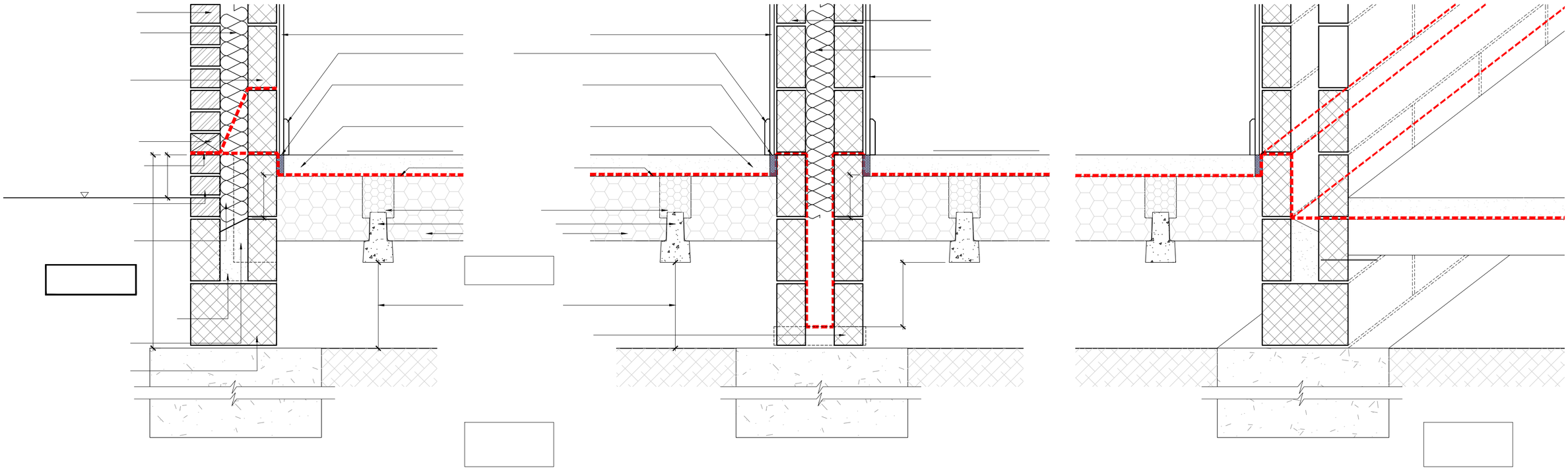
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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gleeson



gleeson



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Waters Edge, High Road
Cumbria CA289QF

Date / Time:	15.11.22 1130hrs

Signature 

Name: Ben Crowther

Signature 

Name: Ben Crowther



GeoEnvironmental Engineering on behalf of

Gleeson Homes
Waters Edge site
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

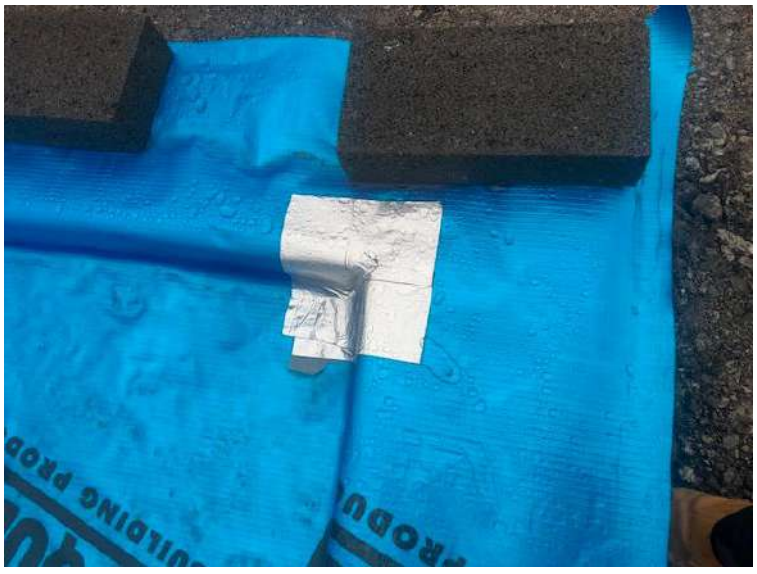
Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

















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For and on behalf of geoenginseer.
geoenginseer@gmail.com 07817 108921

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?



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Geotechnical
&
Environmental Drilling Experts
&
Consultants

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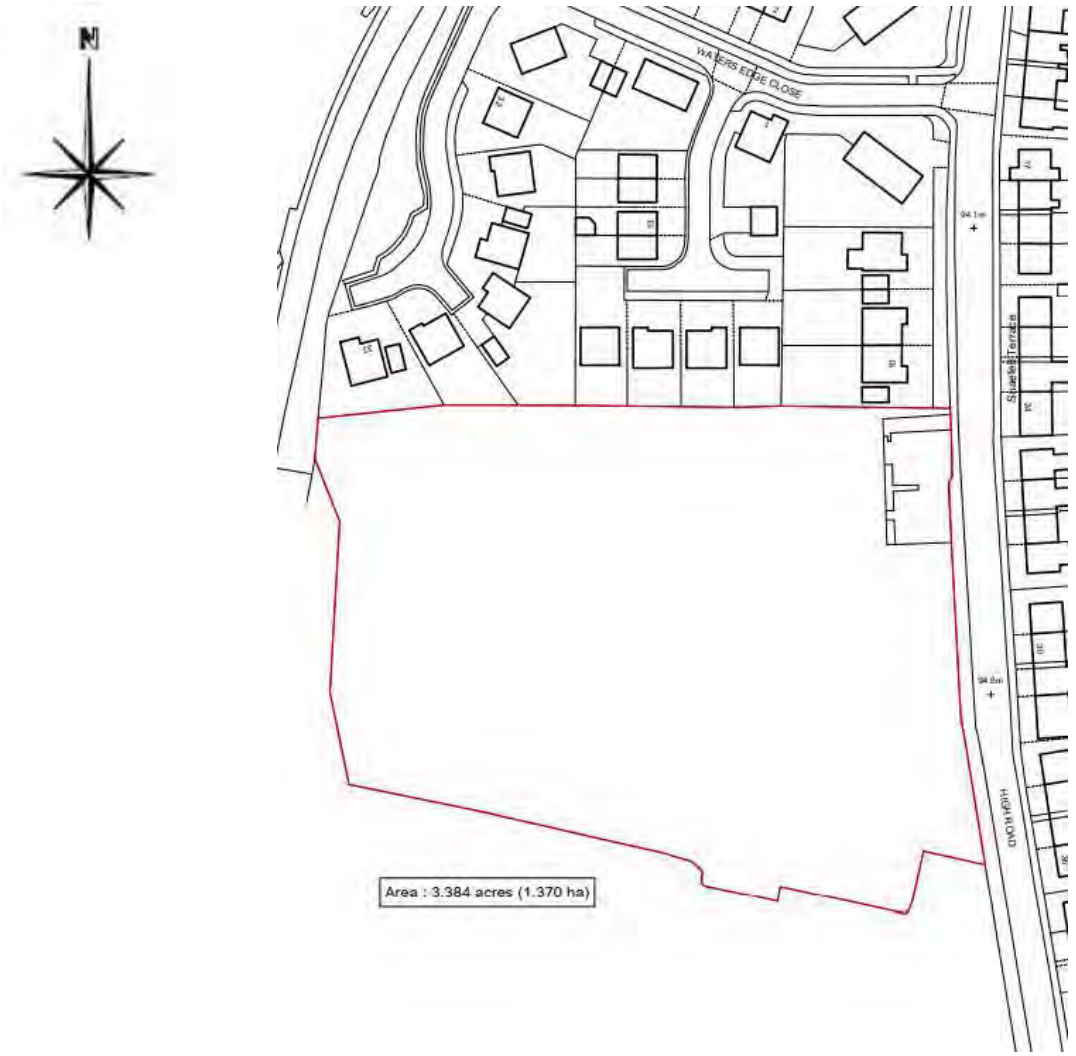
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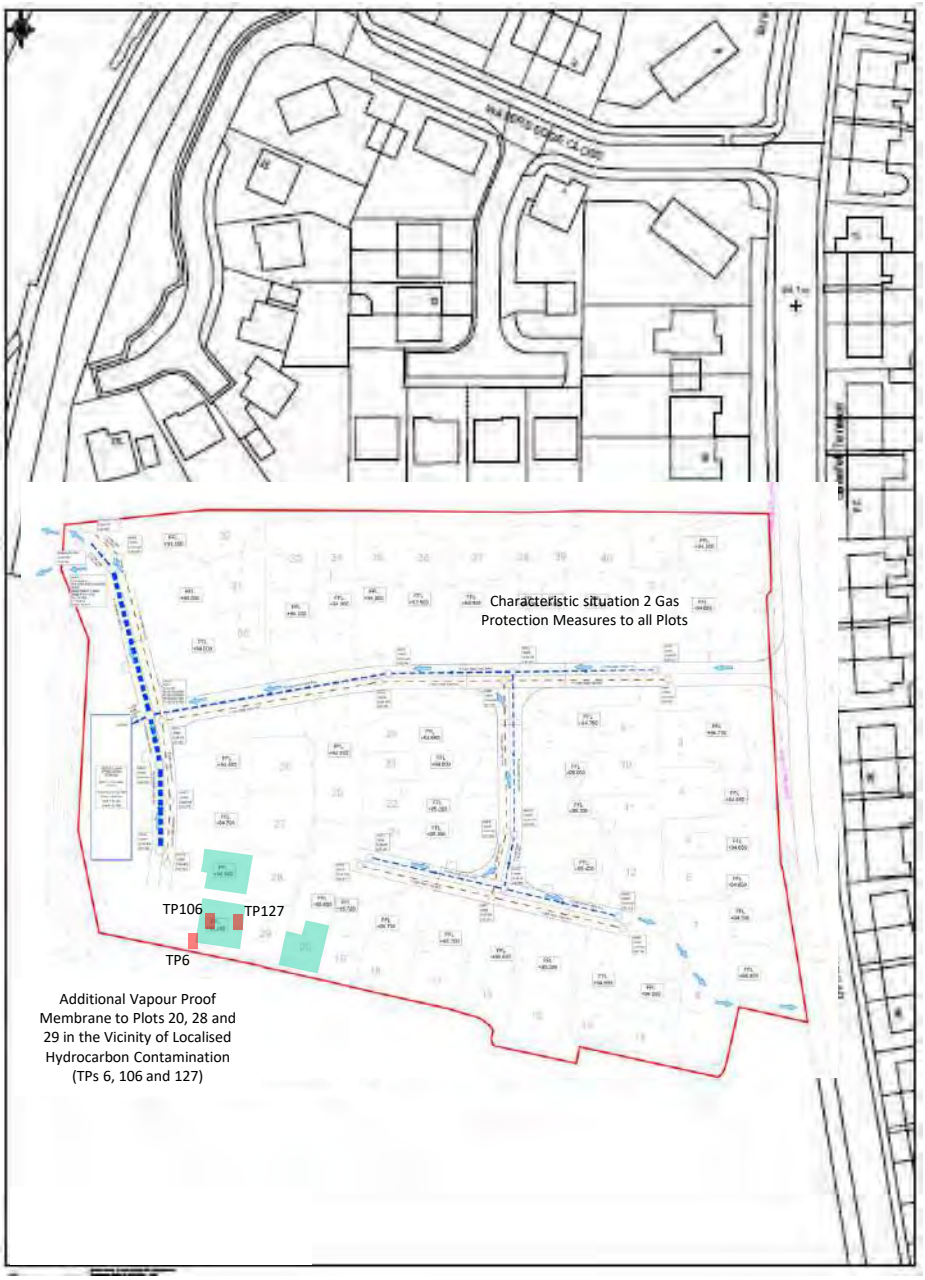


GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186





NOTES / KEY

SITE LOCATION

AREA OF PROPOSED VAPOUR PROOF MEMB?RANE

DRAWING TITLE

PROPOSED VAPOUR MEMBRANE TO SELECTED PLOTS

PROJECT TITLE

WATER'S EDGE, WHITEHAVEN

CLIENT

GLEESON HOMES CUMBRIA

STATUS	PROJECT NUMBER
FINAL	8190
DRAWN BY	DATE
GH	September 2022
SCALE	DRG. No.
NOT TO SCALE	8190OD04

FWS Geotechnical & Environmental Consultants

1 Redwood Crescent,
Office 1.8, Peel Park
East Kilbride
South Lanarkshire
G745PA

Tel: 01355 207 778
admin@fwsconsultants.com www.fwsconsultants.com



GeoEnginSeer
FREELANCE DILETTANTE GEOLOGIST

Gas Protection Verification
exp. 31.10.2023
SGPV0002 BEN CROWTHER

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geoenginseer@gmail.com 07817 108921

GeoEnginSeer
FREELANCE DILETTANTE GEOLOGIST

New residential development Salton Bay, Whitehaven



Gas Protection Verification exp. 31.10.2023 BEN CROWTHER SGPV0002

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	A contamination and geotechnical review report was conducted by Environmental Engineer FWS Consultants Ltd City West Business Park St John's Road Meadowfield Industrial Estate Durham DH7 8ER Contact Tel: 01388 420633
	The 1.4 ha site at National Grid Reference 296680E, 516290N is located off High Road at Water's Edge, Whitehaven
	The residential development is to comprise 40no detached and semi-detached properties as shown in Drawing 21201-D001-Rev2, Appendix 1.2. Finished floor levels between 93.65 m AOD (northwest) to 96.125 m AOD (southern boundary) are currently proposed. The detailed foundation design is currently in progress and it proposed that the low rise residential buildings are supported on a combination of shallow strip or deep trench across the majority of the site. Final design of gas protection measures to all structures with confined spaces is currently in progress, but will include detailed design of the floor slab design, ventilation, gas/vapor proof membranes in accordance with Characteristic Situation 2 conditions (with vapor proof membranes proposed to plots 20, 28 and 29)
	The site is generally flat-lying at an elevation of around 95 m AOD and is surfaced by demolition fill with localised hard standing in the southeast.
	Three stockpiles (Stockpile 1 approx. 65 x 254 x 3 m, Stockpile 2 approx. 45 x 20 x 3 m and Stockpile 3 approx. 70 x 30 x 5 m) comprising fill were present at the time of the ground investigations in 2019 and 2020 in the central and southwestern areas. The site is bordered by residential development to the north and east with derelict open space to the south and west.
	It is understood that the wider Rhodia Chemical Works extending to the south of the current development site manufactured naphthalene and coal distillate firelighters, sulphuric acid, cement plant, phosphate, phosphoric acid, fatty alcohol, surfactants and oil additives. It is unknown what 5 8190OR04Rev2/October 2022 specific process activities were undertaken within the site boundary of the current proposed development. Review of the available records implies the site was predominantly utilised as office, warehouse and storage space with the main chemical works to the south.
	The proposed residential development is to be designed to incorporate Characteristic Situation 2 gas protection measures in accordance with BS8485:2015+A1:2019. Where localised visual/olfactory and low concentrations of hydrocarbons have been proven in the southwestern parts of the site associated with the former above ground tanks and onsite drainage, it would be precautionary to incorporate a vapour proof membrane into the final gas protection measures

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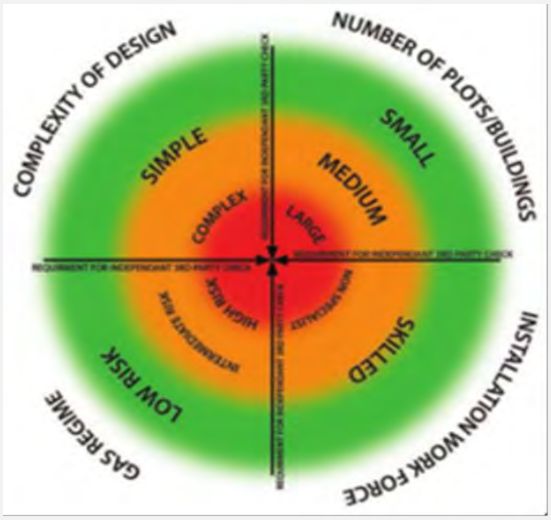


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Annex A

Geological Services: Verification Specialist: Freelance Geologist



Ben Crowther trading as GeoEnginSeer Ltd; Independent Geological Services.

CSCS MAP: 06010225 exp 09/2022

Telephone: 07817 108921

Email: geoenginseer@gmail.com Website: www.GeoEnginSeerLtd.com

Qualifications: B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT (CSSW) SGVP (CL:AIRE)

NVQL3 Assessor of: Verification of Gas Protection Measures (NVQL4)

Confined Spaces L1, IPAF Harness Training, Cradle Safety.

PCA Qualified Technician in structural waterproofing. October 2020

Experience Summary:

15 years local authority regulation

14 years site investigation, site supervision, construction quality assurance and verification

Previous Secretary of, and founder member of the British Verification Council

Attendee of CIRIA Research Group 'Remedial Measures for Proprietary Gas Protection Measures'

Assessor for: NVQL4 Verification of Gas Protection Systems

CL:AIRE GPVS Assessor, SGVP certificate holder No.004

Climber, Fell Runner, Wild Swimmer, Ex Royal Marine Diver.

Recent CPD Summary:

GGS 2 Day A-Z of Ground Gas August 2017

CIRIA Verification Training Event October 2017

PCA Structural Waterproofing Conference 2018, 2019

CIRIA Technical Meeting for Retrospective Fitting of Gas Resistant Membranes 2019

Brownfield Summit Attendance 2018, 2019, 2020, 2021, 2022

DoWCoP CL:AIRE Training March 2021

PCA CSSW Qualified Technician Training 2021, working towards CSSW qualification.

Appeared on: Gassing On! with Neil Salvidge.

HS2 Align Training for Tunnel Shaft H&S Green Tunnels and Shaft Work: C1 and C2,

2022 Cradle safety and IPAF harness use trained: Operator Licence: OP/2157339

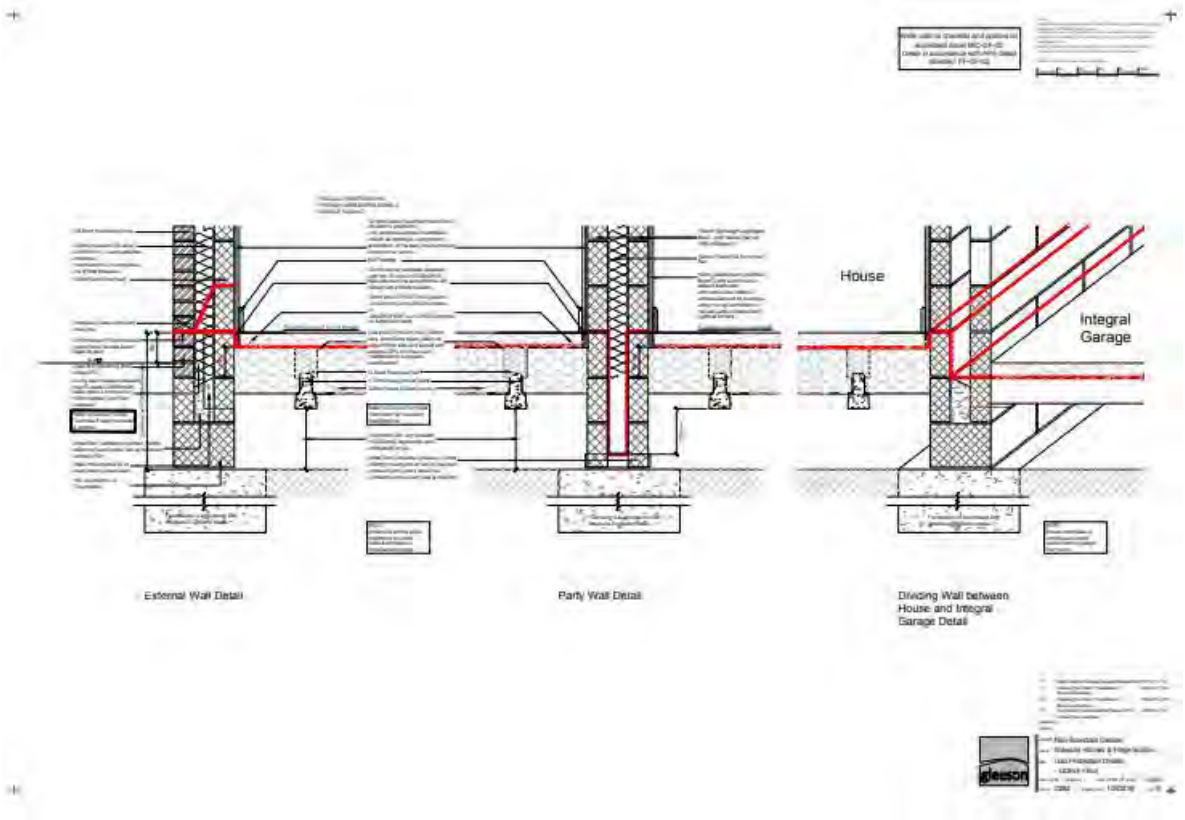
Signature:

Site overview with proposed layout

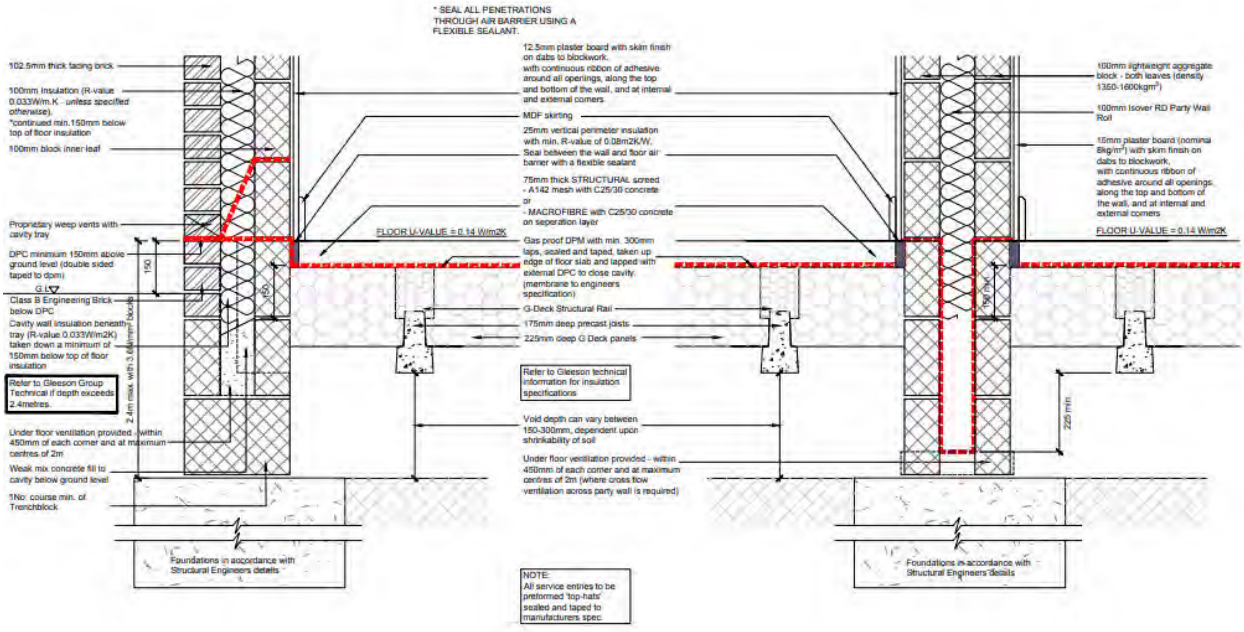


Gas Protection Verification exp. 31.10.2023 SGPV0002 BEN CROWTHER

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For and on behalf of geoenginseer.
geoenginseer@gmail.com 07817 108921

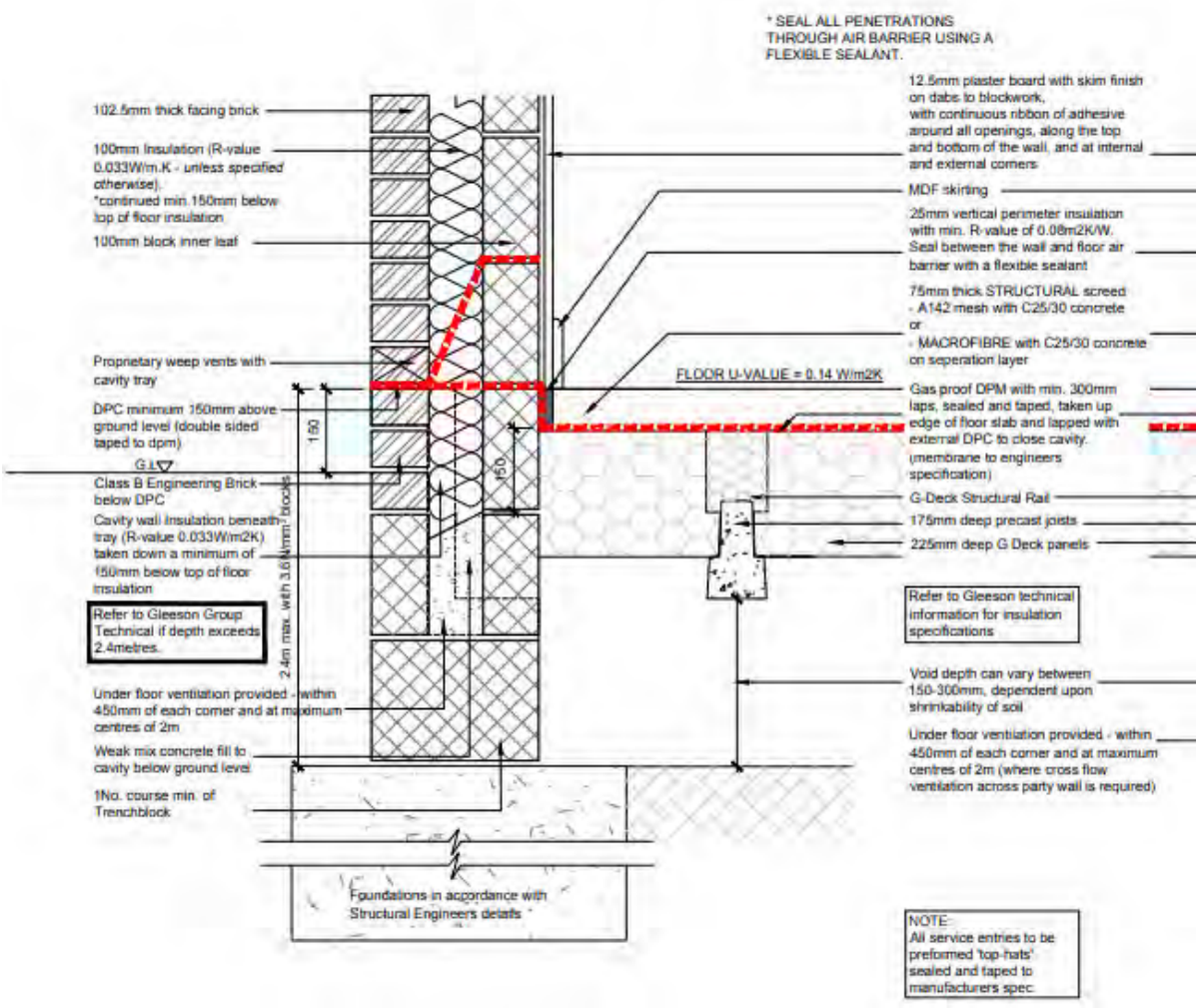


Overview of details of gas resistant barrier placement:



Close up Detailing from Gleesons for placement of the Gas Resistant Barrier

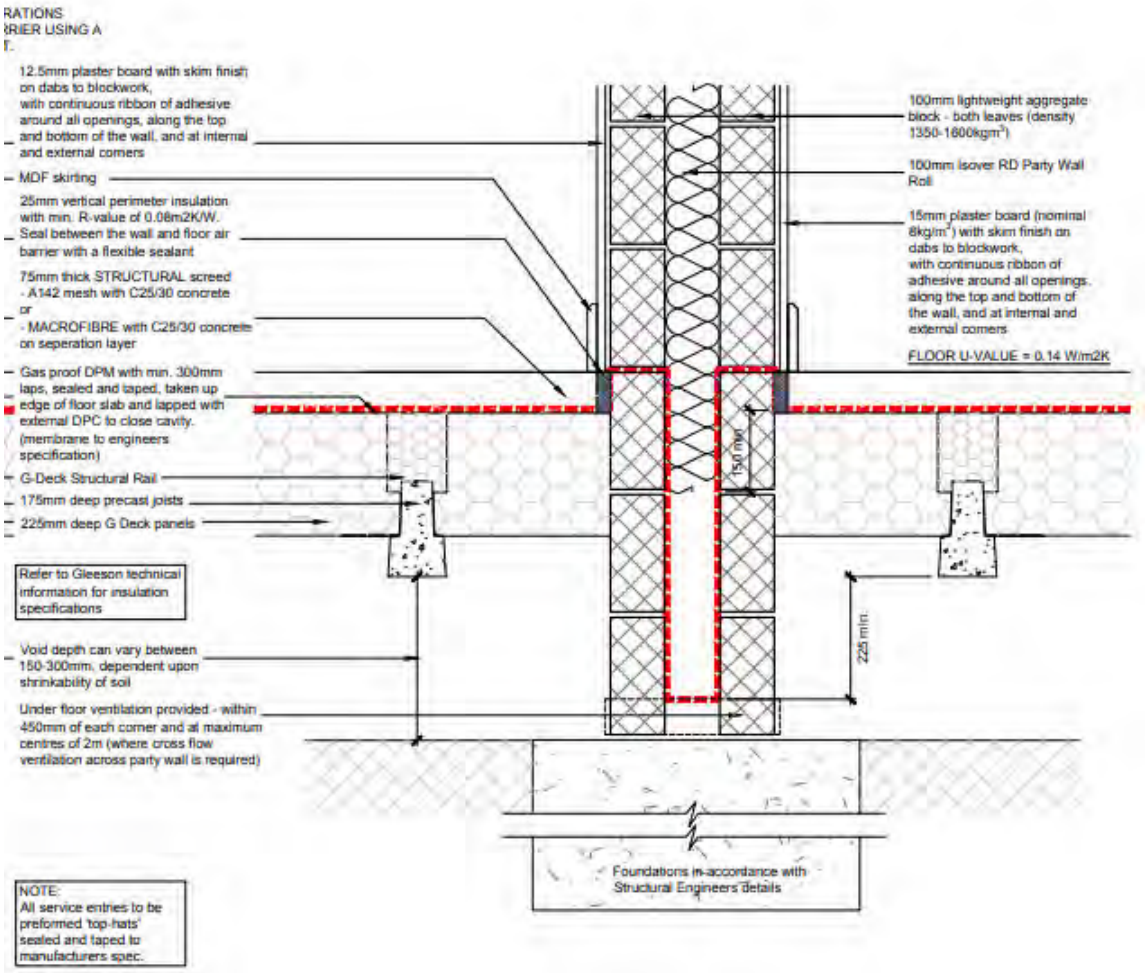
Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV
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geoenginseer@gmail.com 07817 108921



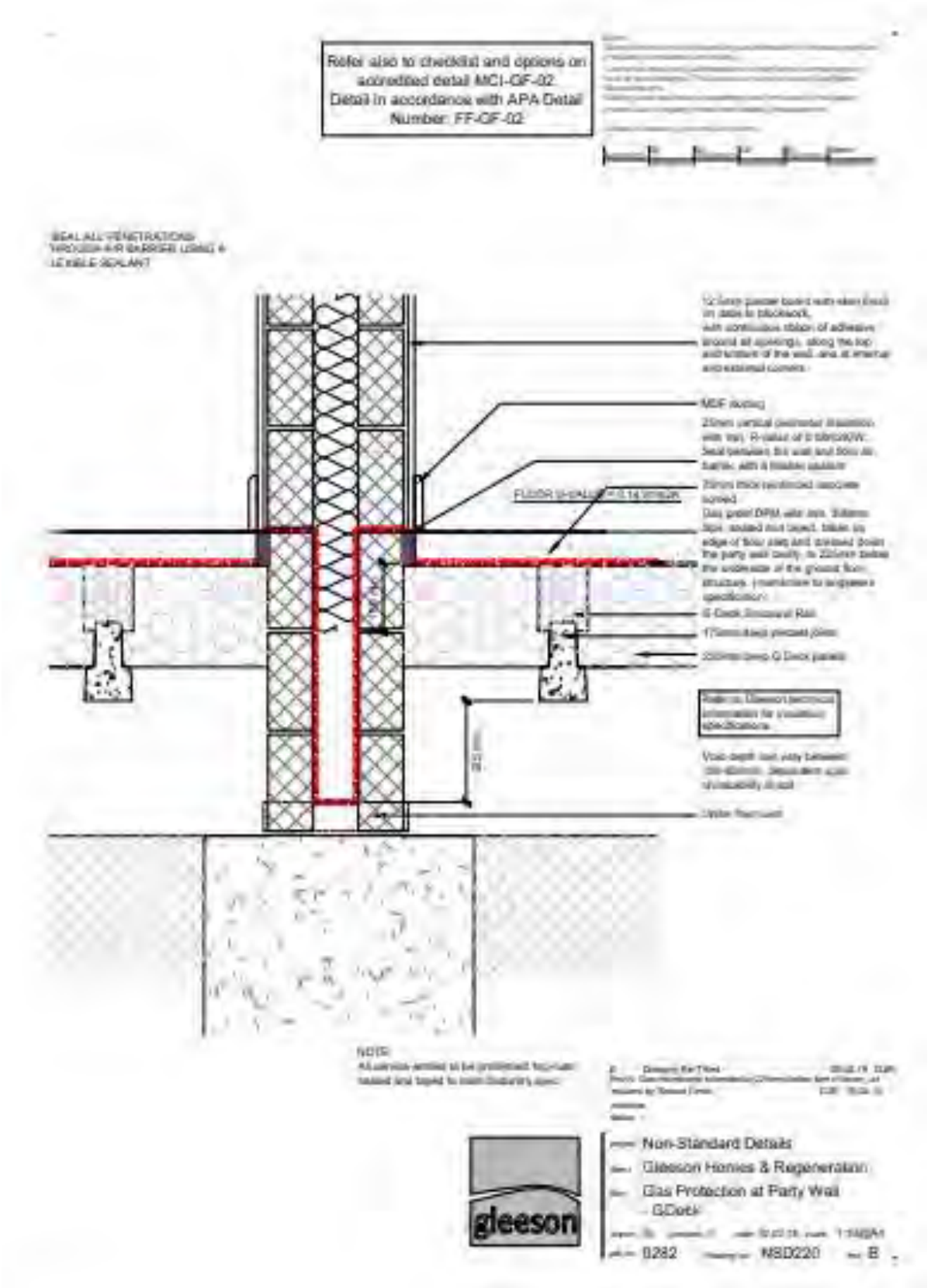
Additional Close up of above main design drawings Left hand side

Gas Protection Verification exp. 31.10.2023 BEN CROWTHER SGPV0002

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For and on behalf of geoenginseer.
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Additional Close up of above main design drawings right hand side



Party Wall for semi detached property details

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Annex C

Visqueen barrier materials website to use to as reference for installation guides.

Majority of Plots: Links provided to save space:

https://visqueen.com/products/gas-barrier

For plots 19-20, 28 & 29 the following product is planned for installation:

Visqueen Ultimate HC BLOK - Gas Protection

Both products las accessed October 2023.

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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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Visqueen Gas Barrier

About Visqueen

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For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

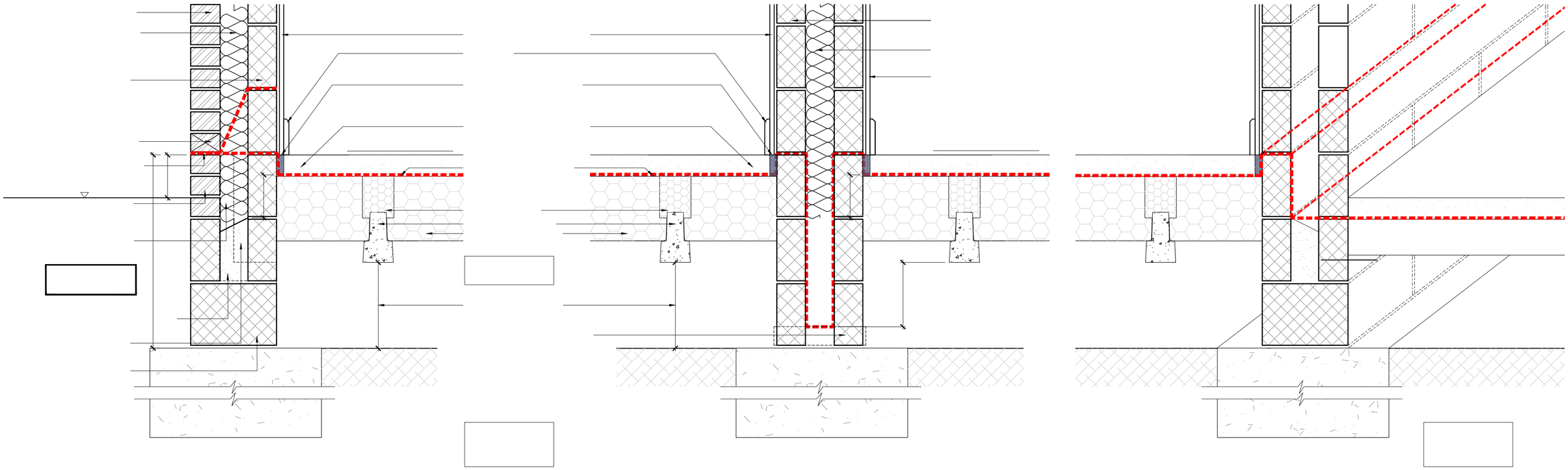
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

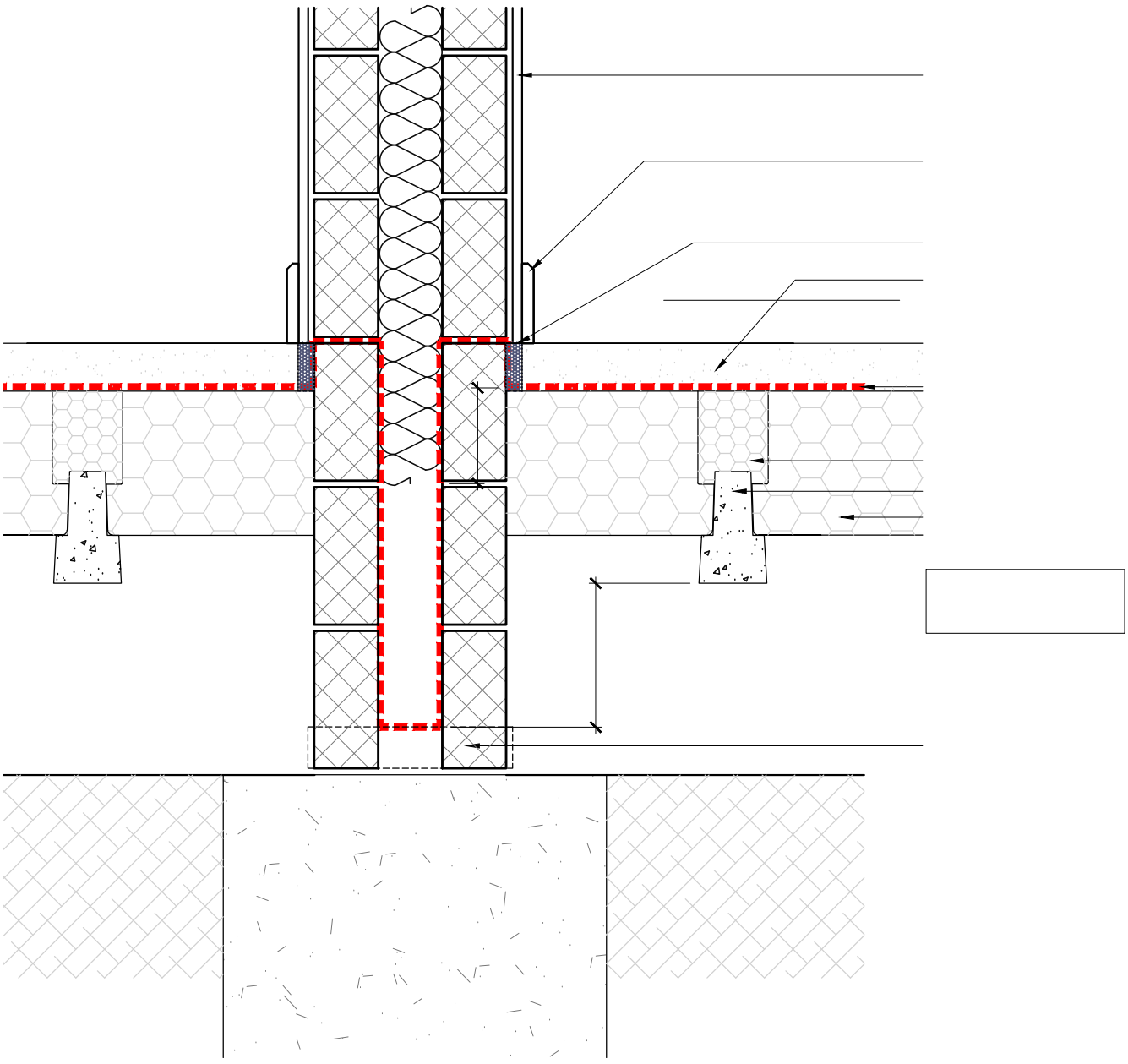
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Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

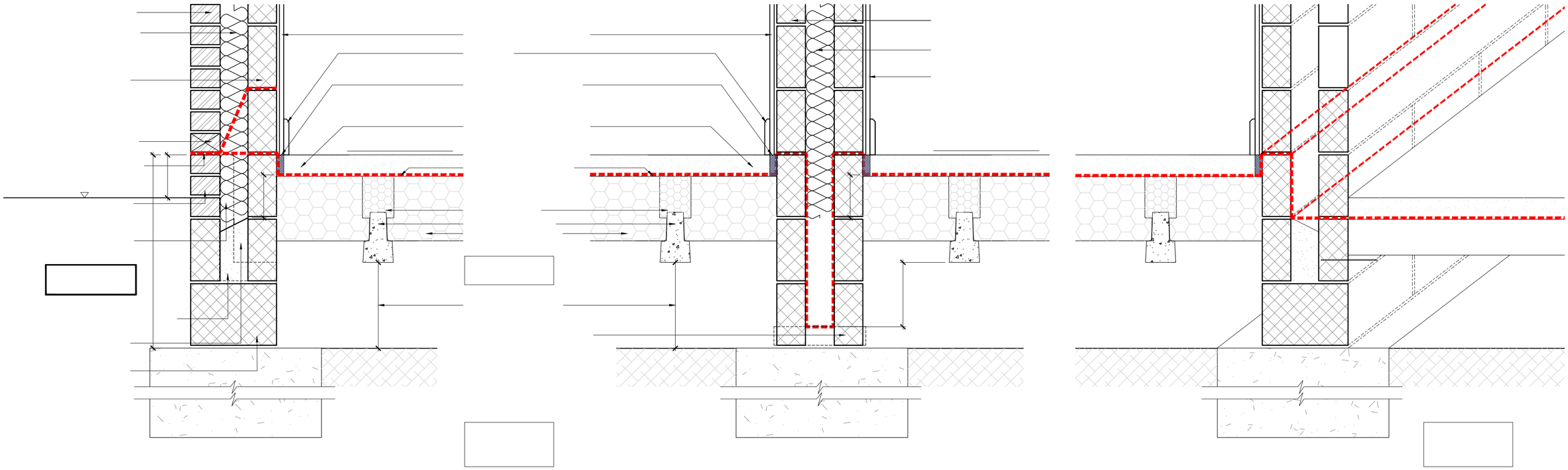
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FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date	9th May 2024

Signature



Name: Mairead Morony

Signature



Name: Ben Crowther



01768 807 856
Manelli House
Cowper Road
Gilwilly Industrial Estate
Penrith
Cumbria CA11 9BN

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Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

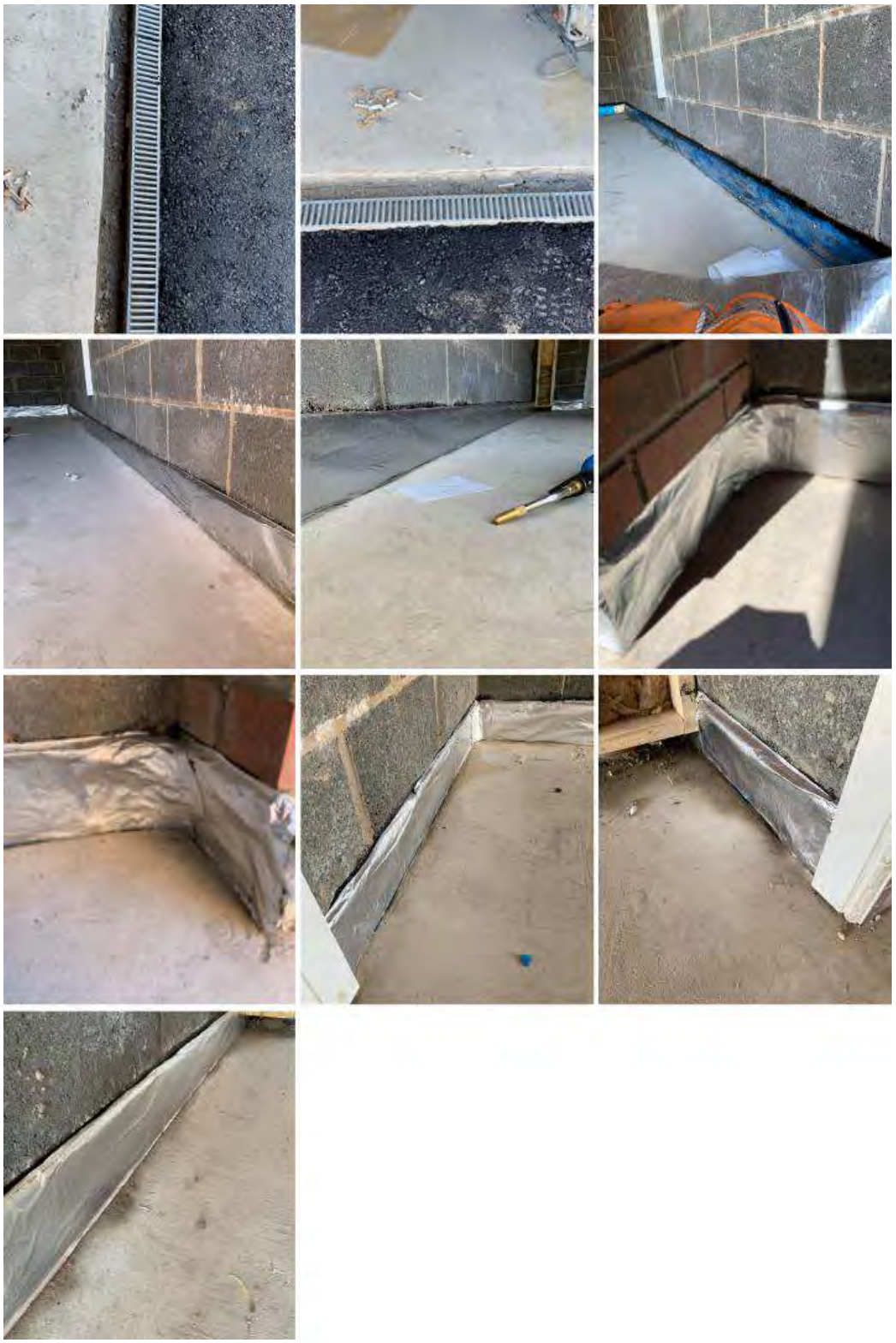
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

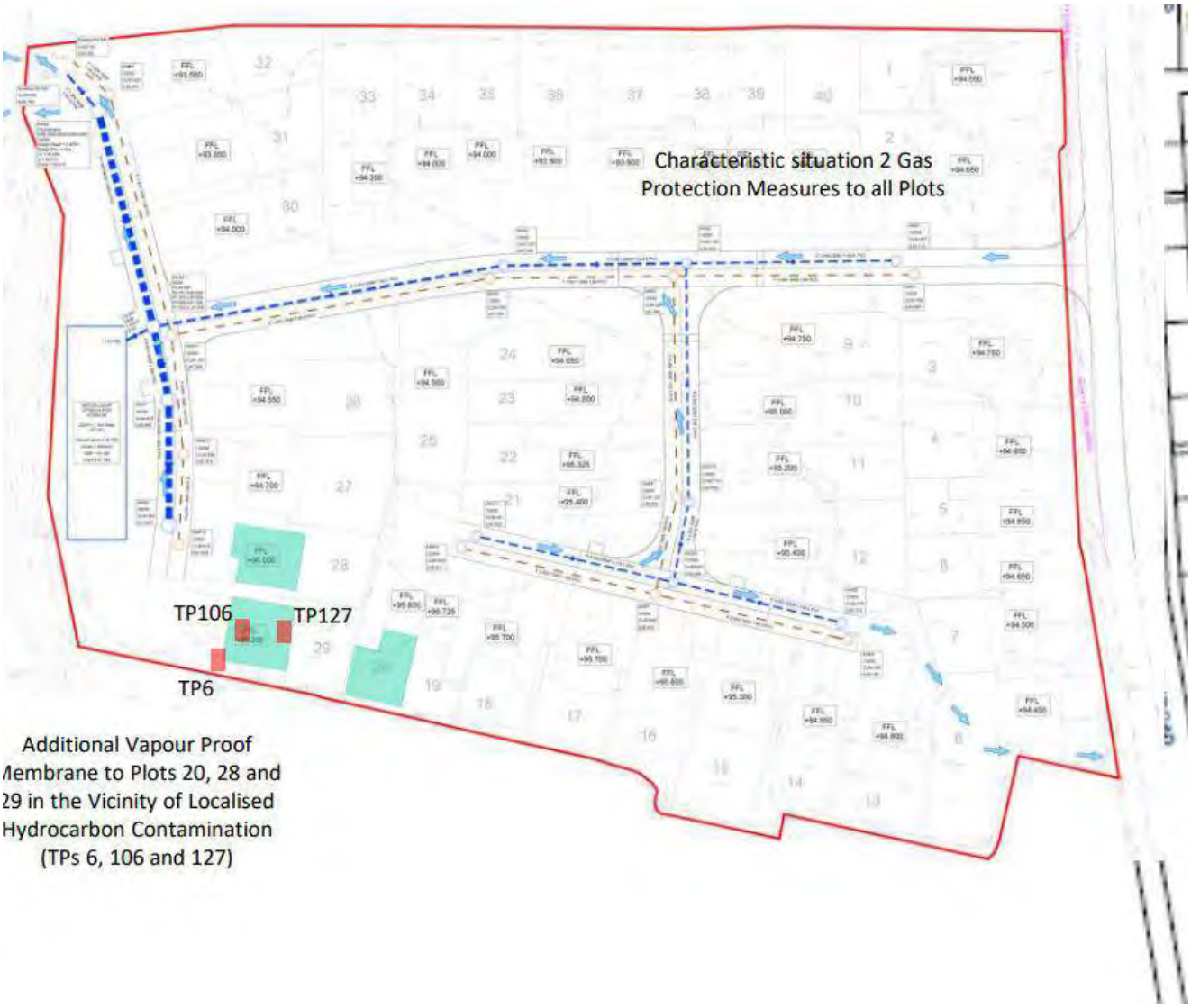
Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?










Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)

Are the installers suitably qualified / trained? Names of installers / company details?

PRS Professional Remedial Services

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

PASS

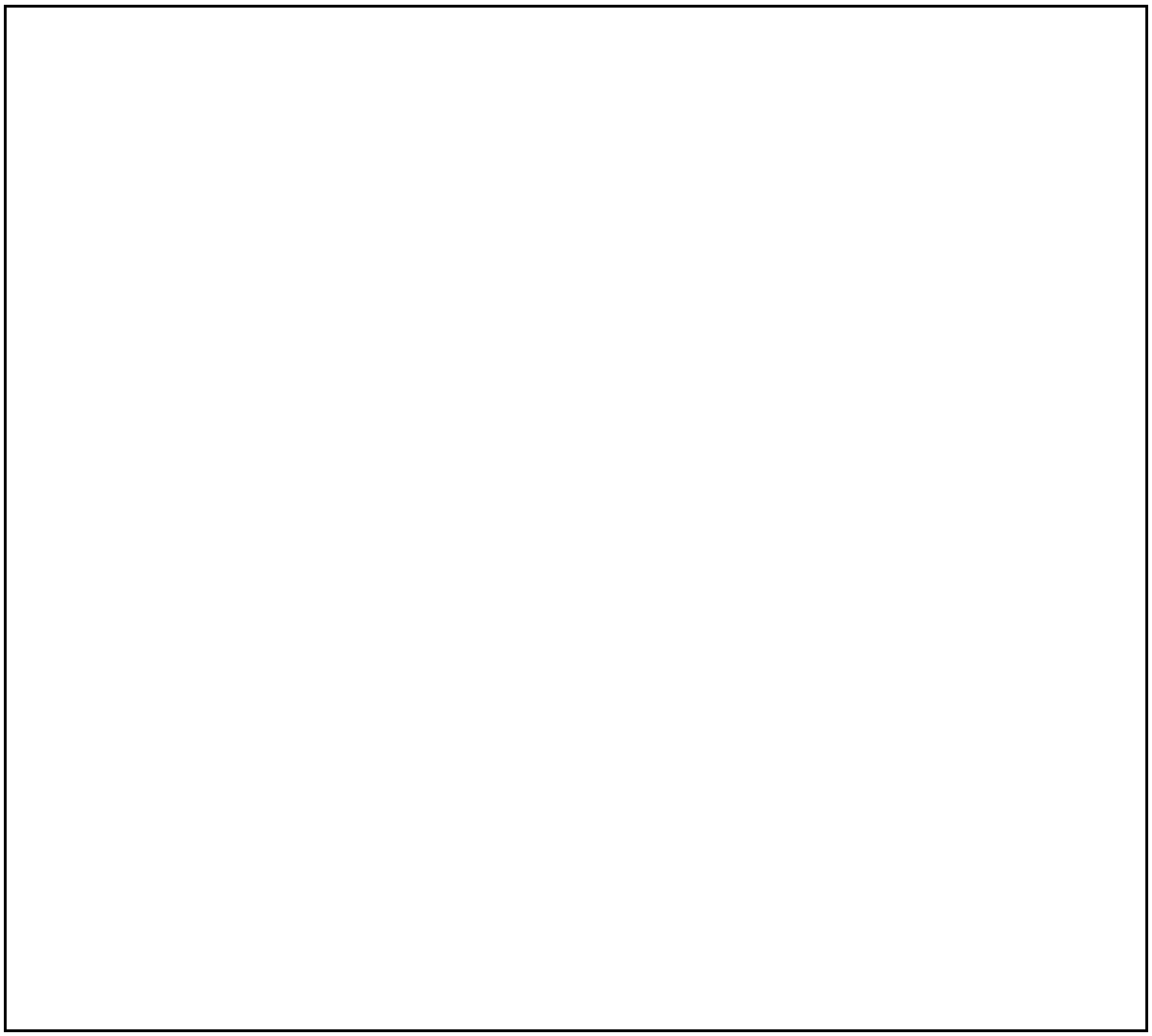
Remedial actions to be taken? Re-visit to be arranged?



THE RADON COUNCIL

Gas Protection Verification exp. 31.10.2023 BEN CROWTHER SGPV0004

BGA British Geomembrane Association



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GEO Environmental Engineering Ltd
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&
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_____ *B.Sc. (Hons), FGS.*

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-
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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

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Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
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Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

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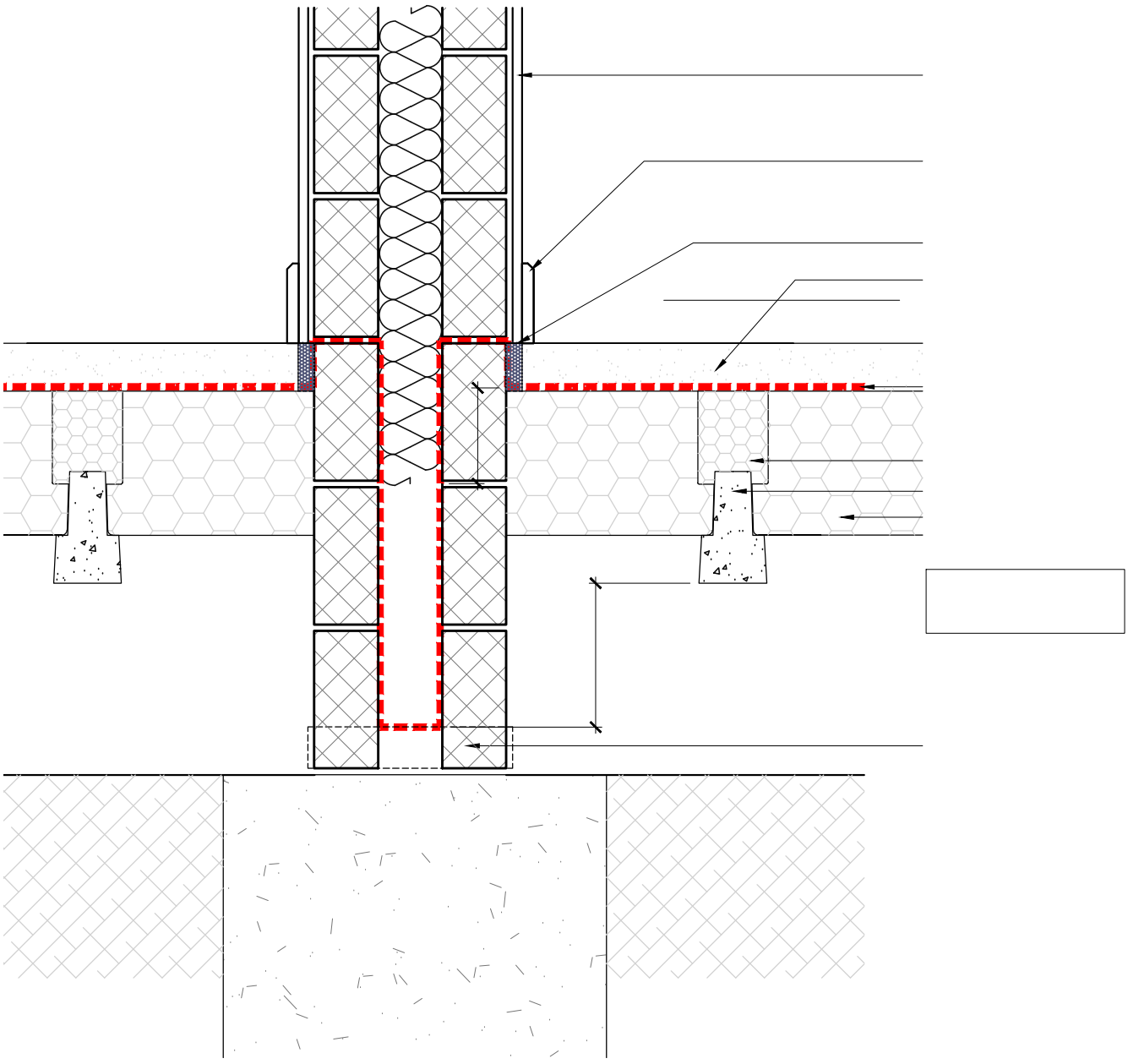
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Visqueen Training Academy

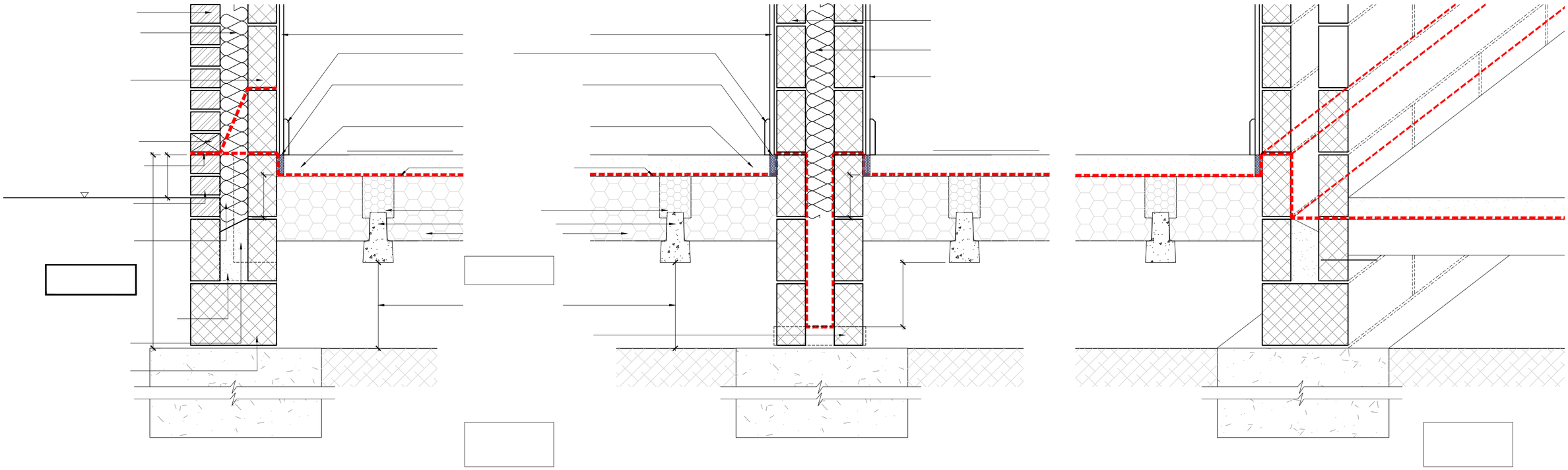
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FREELANCE DILETTANTE GEOLOGIST

Waters Edge, High Road
Cumbria CA289QF

Date / Time:	07.11.22 1330hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther

Waters Edge, High Road
Cumbria CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

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How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




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Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?



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GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

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_____ *B.Sc.(Hons)*

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-
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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

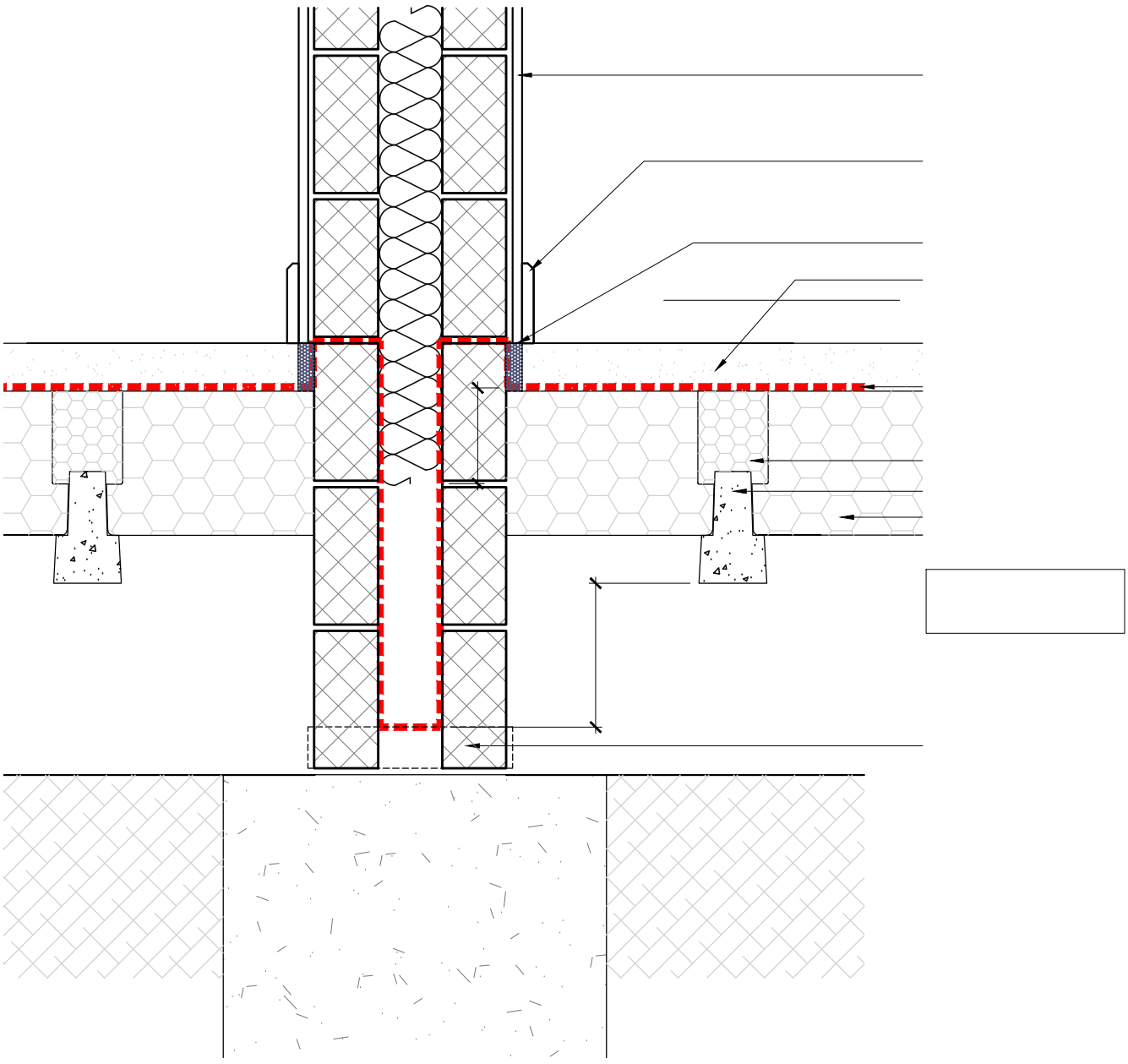
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

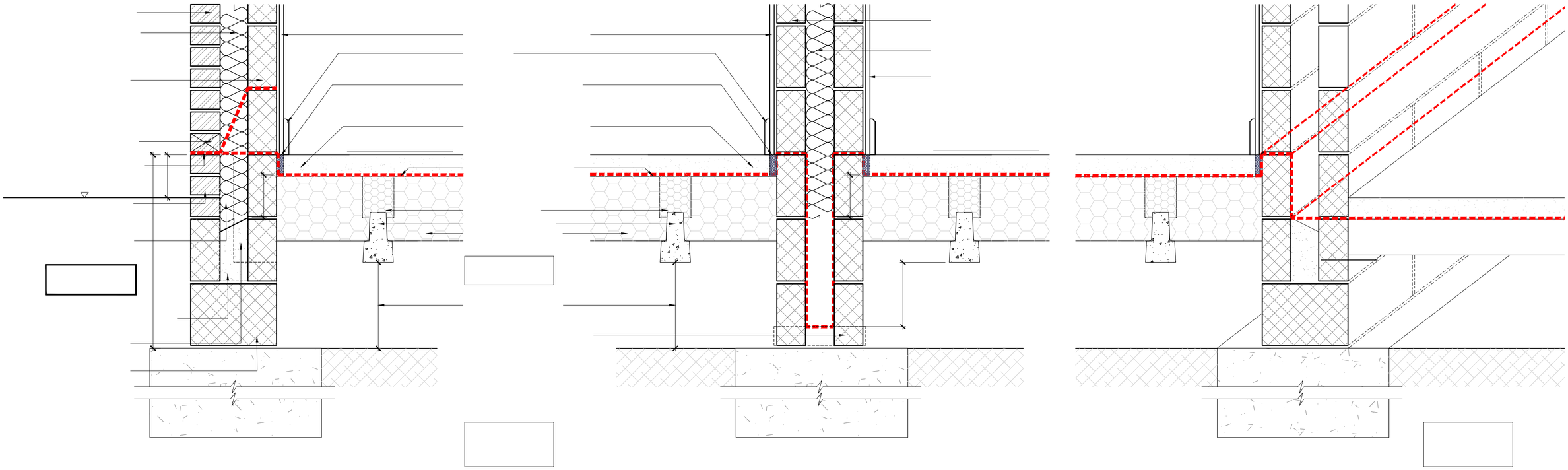
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Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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Site Plan		
		
Pipe Penetration Example		
		
Machine/Hand Weld Join	Machine Weld	Hand Weld
		
Corner Detail	Hand Weld	Joint at pipe detail

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	Seam Testing	Membrane below internal wall
		
Air Flow Brick Example	Outside Wind Speed	Air Vent Wind Speed
		

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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

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If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
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Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
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Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

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From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

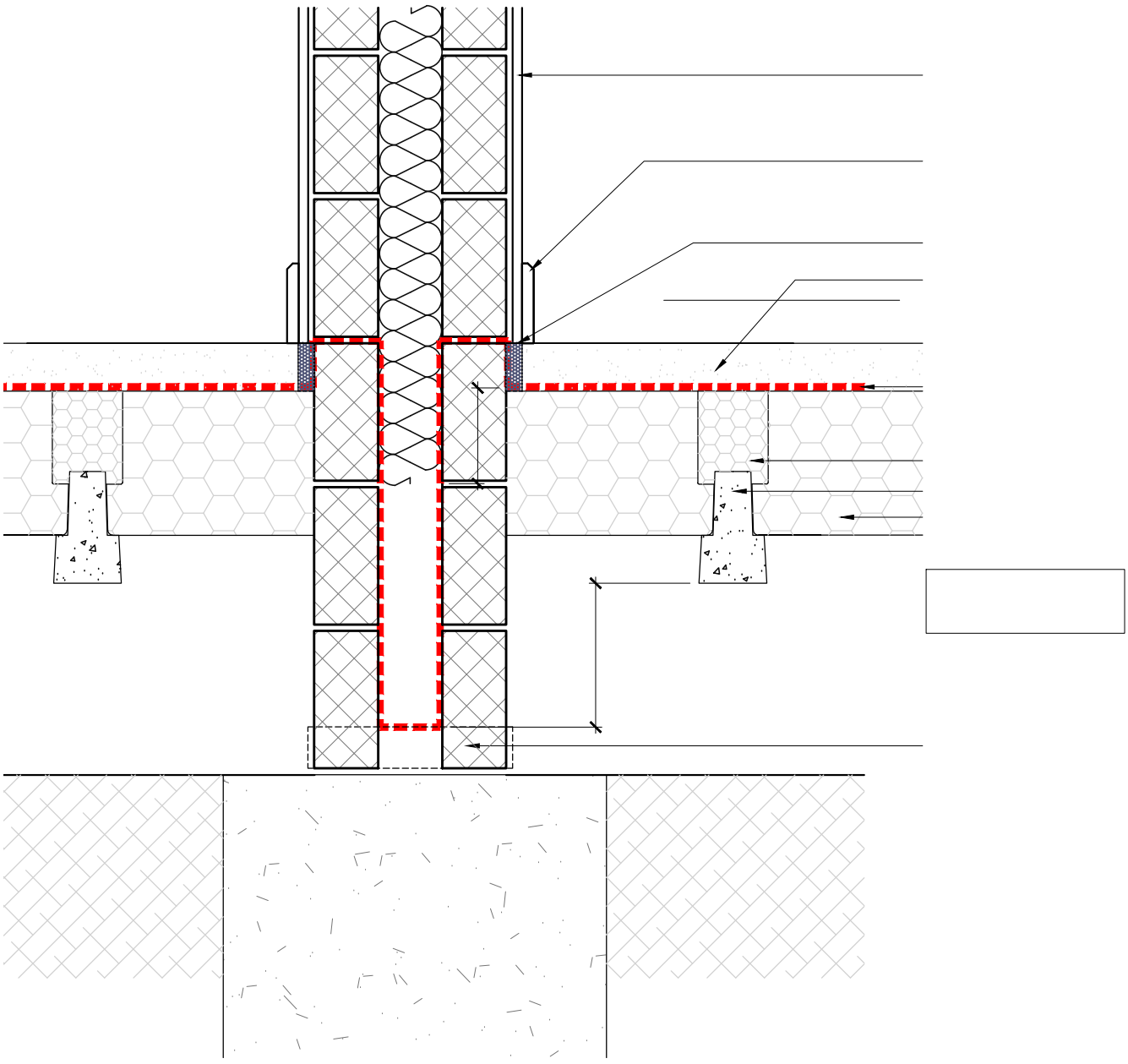
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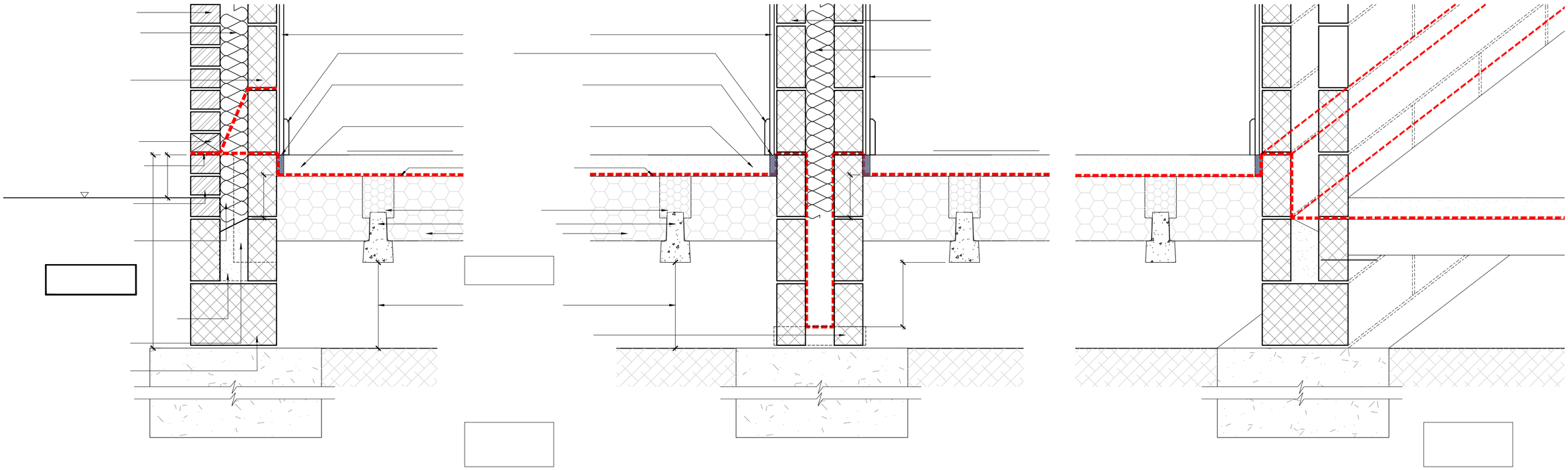
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Site Plan		
		
Pipe Penetration Example		
		
Machine/Hand Weld Join	Machine Weld	Hand Weld
		
Corner Detail	Hand Weld	Joint at pipe detail

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FREELANCE DILETTANTE GEOLOGIST

		
	Seam Testing	Membrane below internal wall
		
Air Flow Brick Example	Outside Wind Speed	Air Vent Wind Speed
		

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_____ *B.Sc.(Hons)*

_____ *B.Sc. (Hons), FGS.*

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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

-
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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

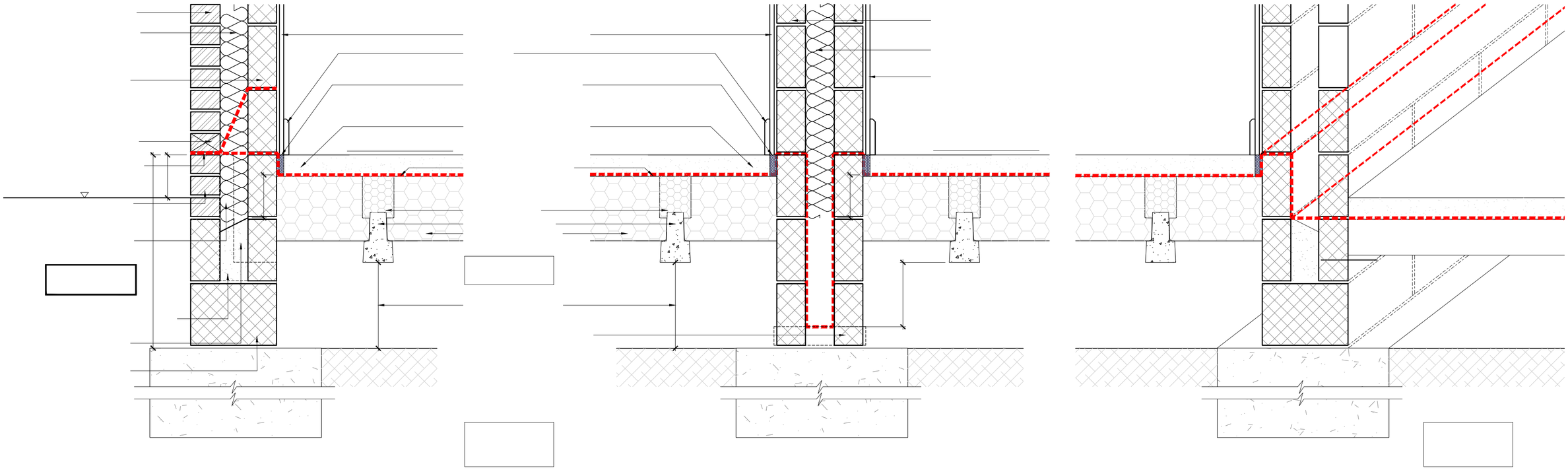
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

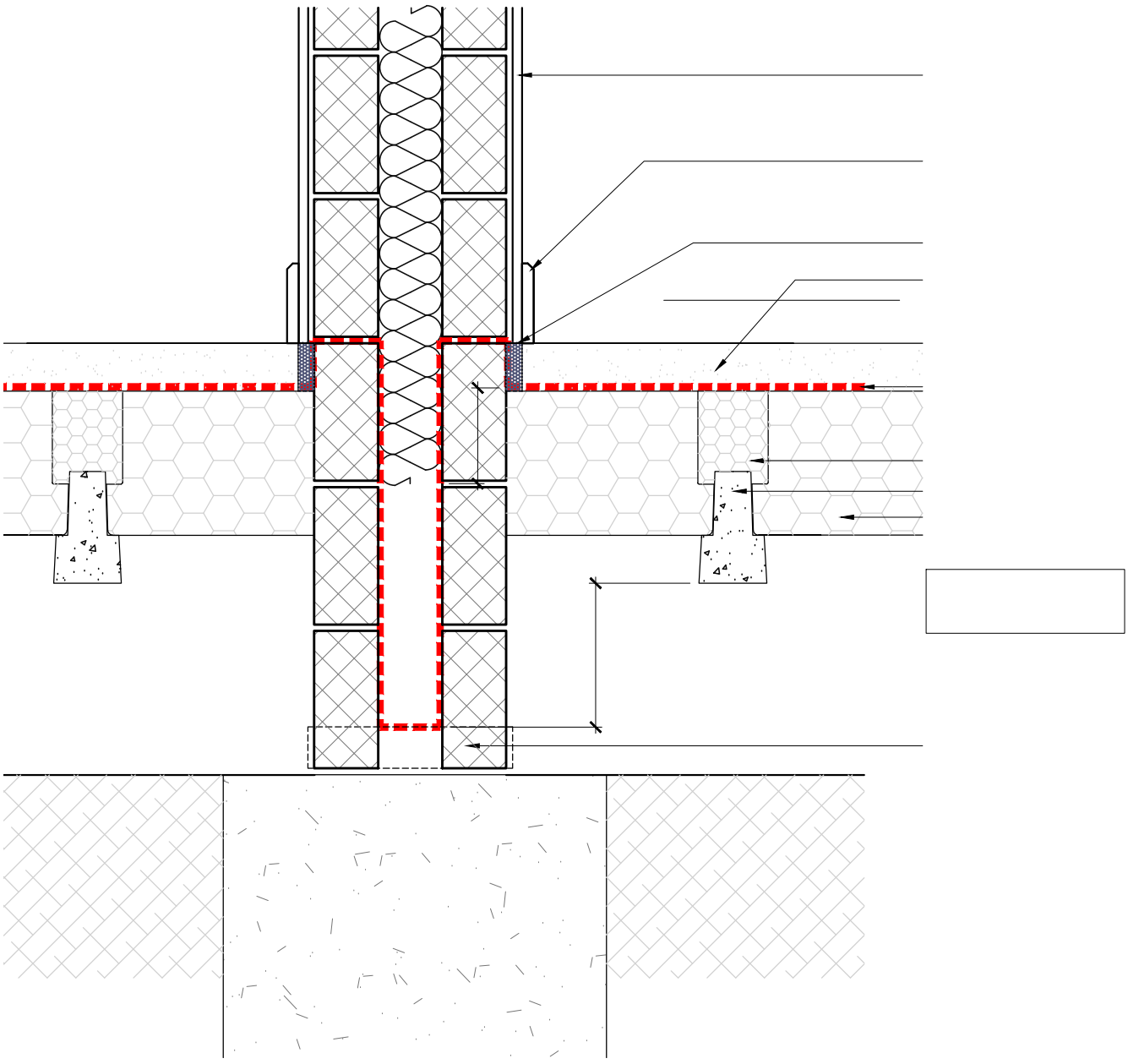
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

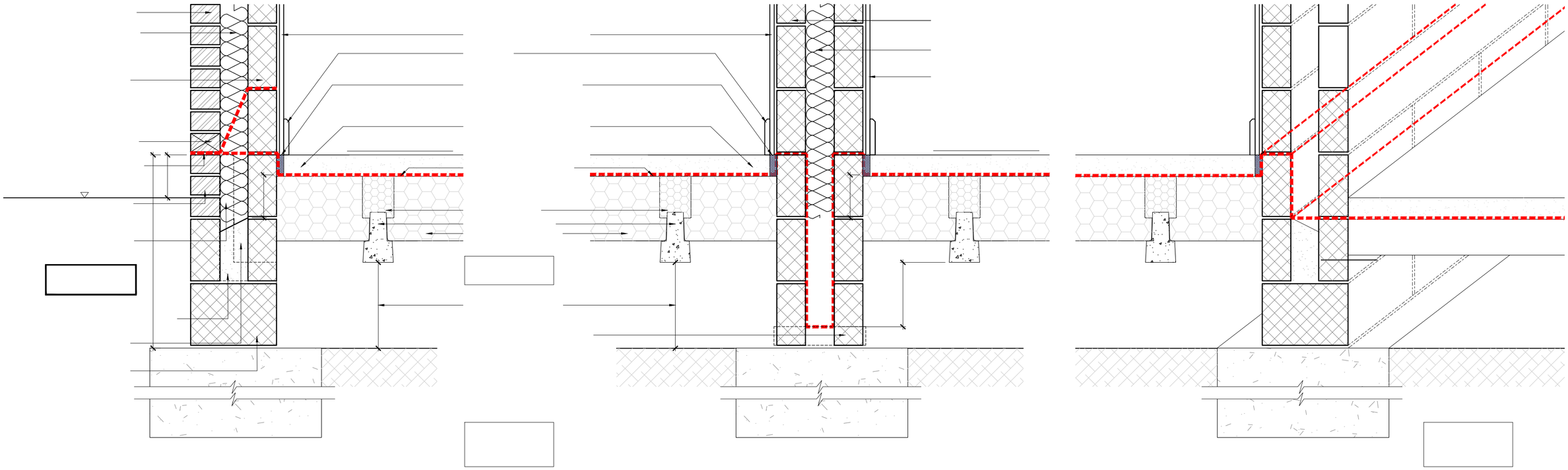
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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	21.06.24 0830hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name:

Waters Edge, High Road
Cumbria CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

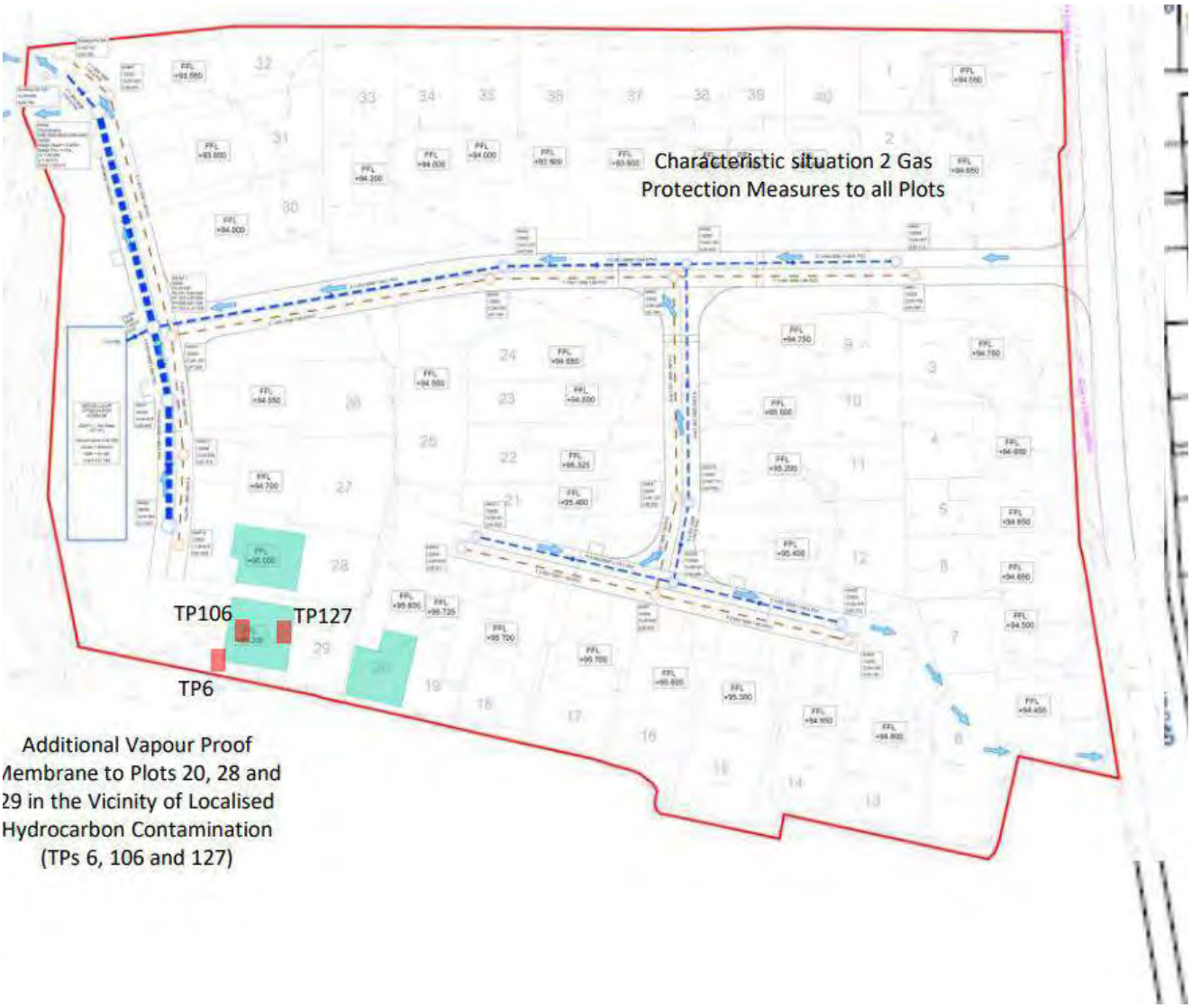
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)


14









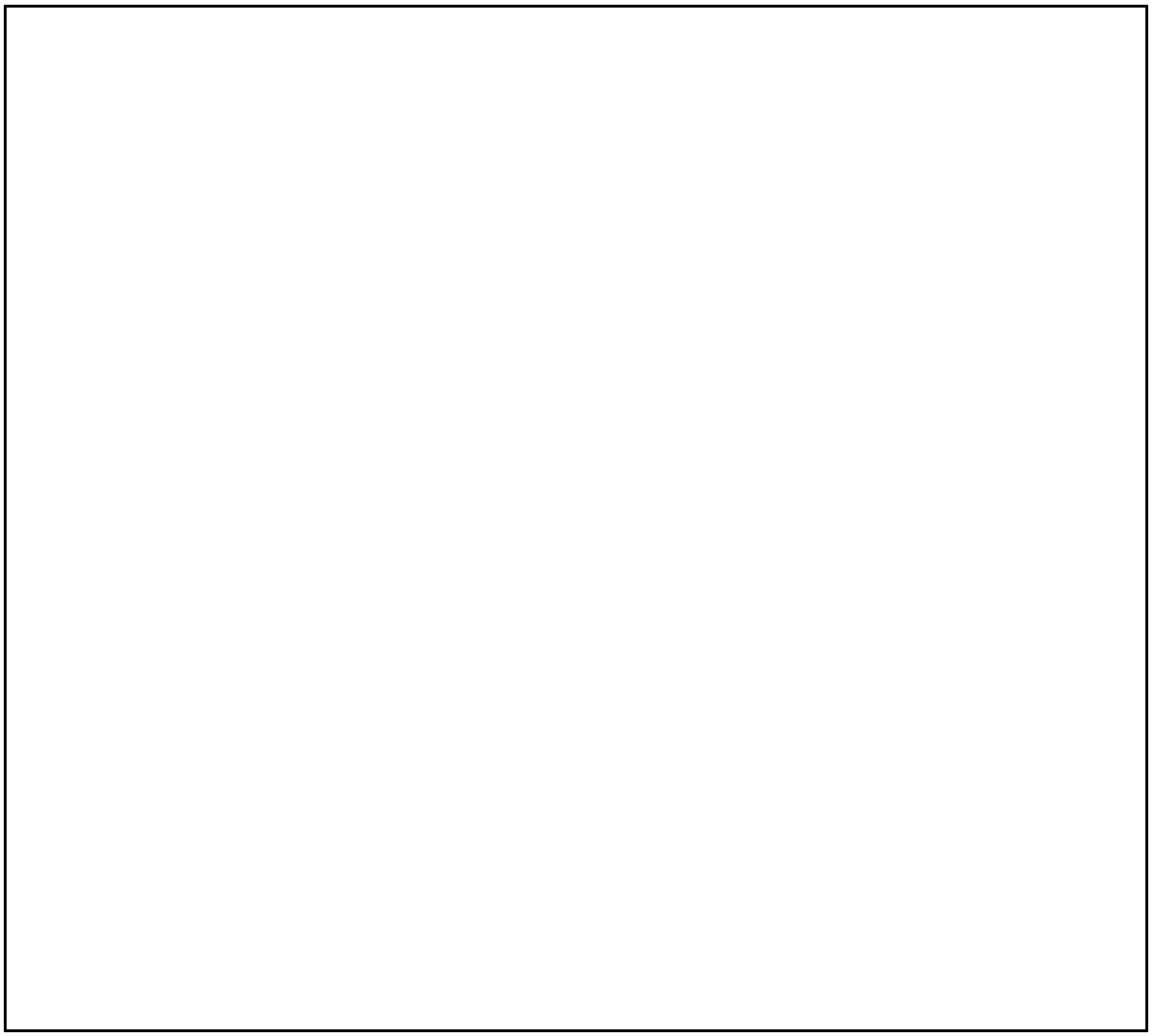


Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?





GEO Environmental Engineering

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Geotechnical
&
Environmental Drilling Experts
&
Consultants

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_____ *B.Sc. (Hons), FGS.*

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House Type	Quantity
201	2
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304	3
341	8
360	3
435	6
436	3
Total#	40

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Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Full Design Liability for Structural Waterproofing and Gas Protection

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
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Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
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Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
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Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

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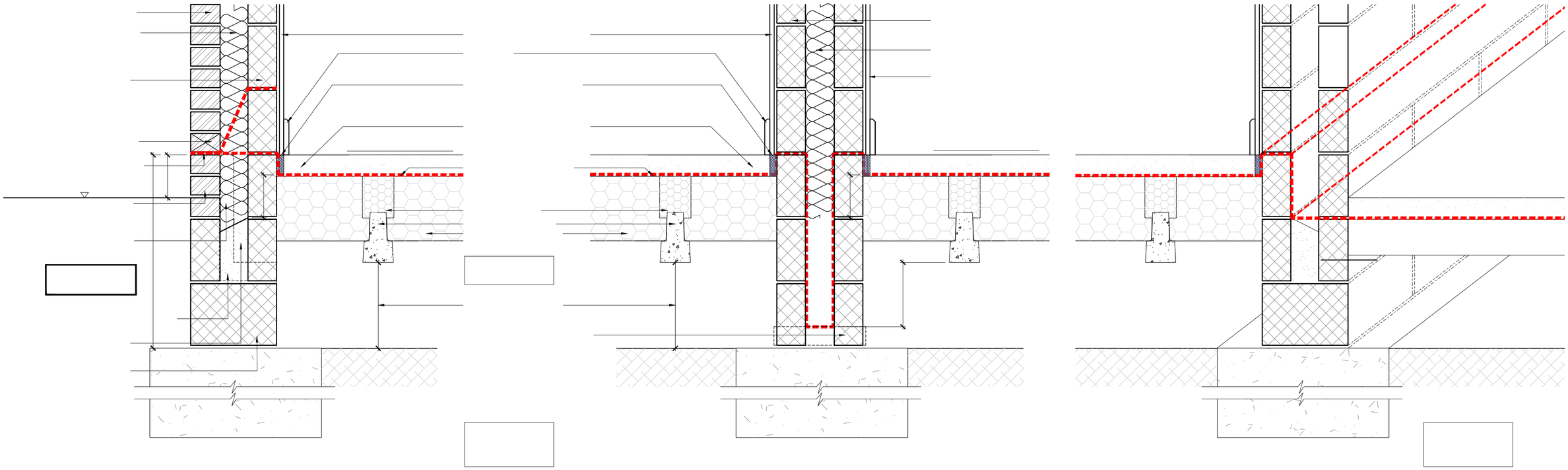
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Visqueen Training Academy

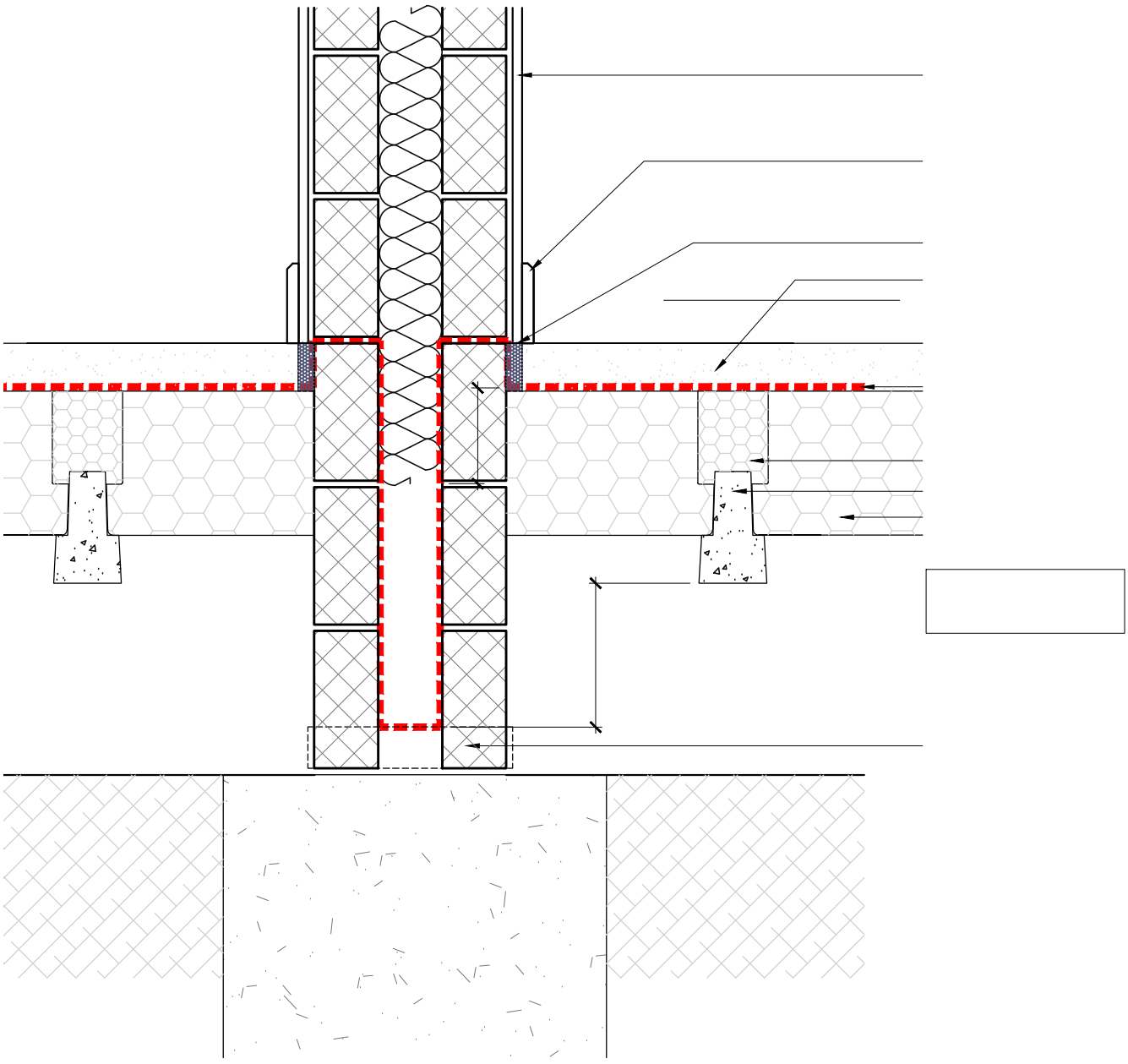
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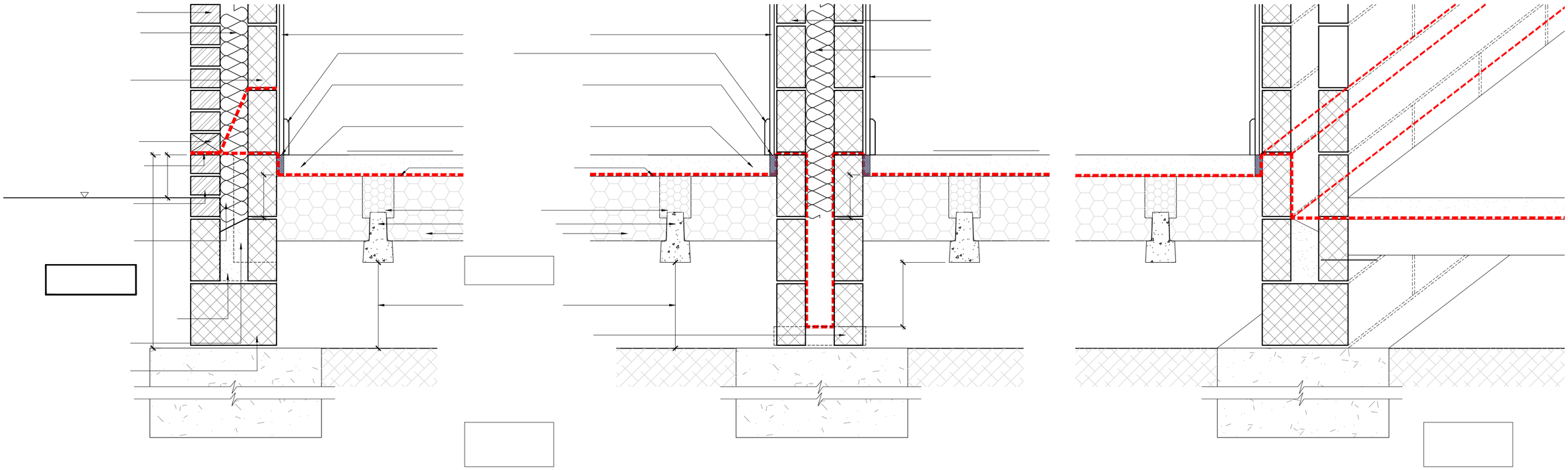
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+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com



gleeson



gleeson



gleeson



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date / Time:	13.03.24

Signature 

Name: Paul Carter – Jones

Signature 

Name: *Ben Crowther*

Gleesons Homes
Salton Bay Housing Development (Waters Edge)
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

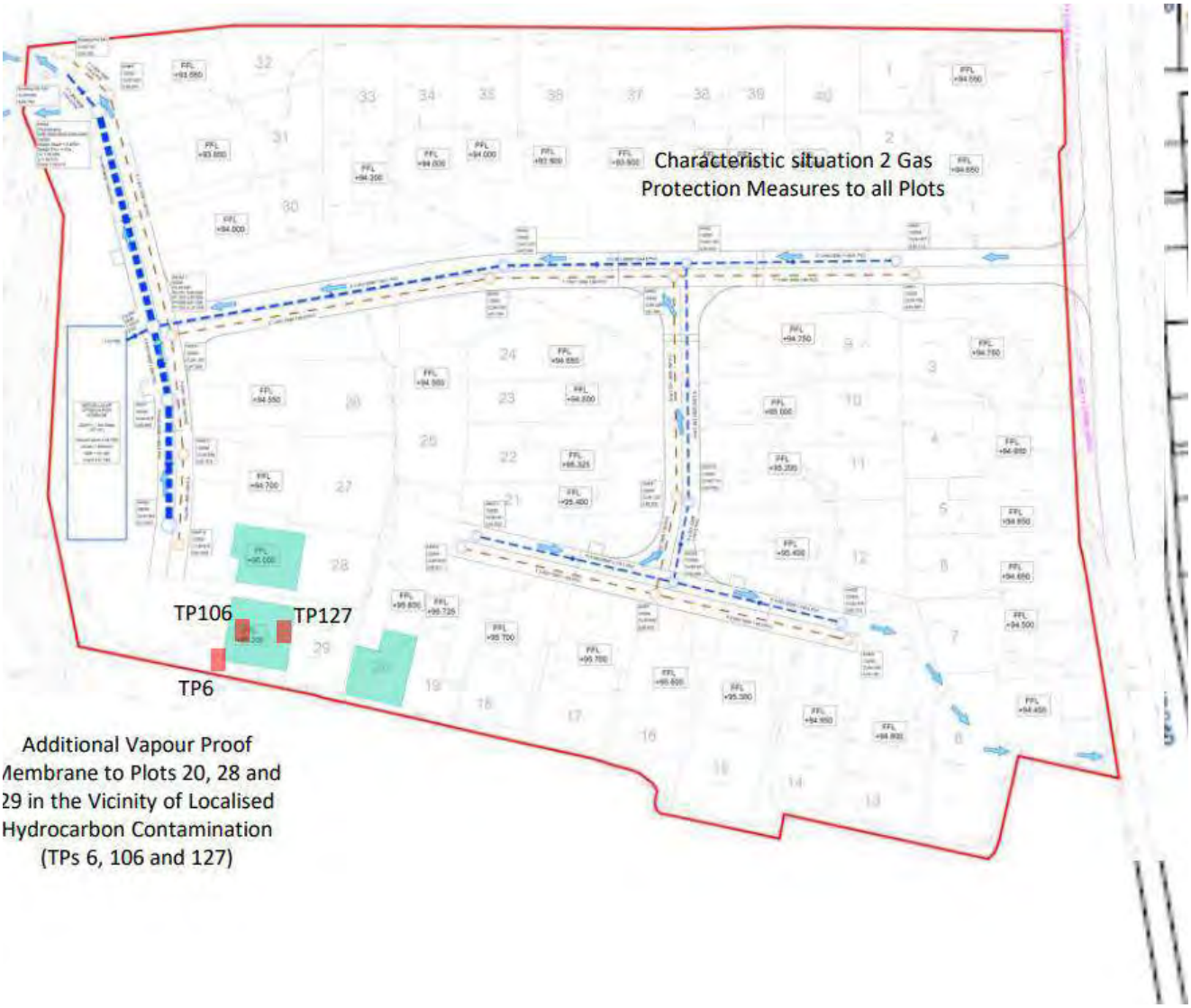
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

arch


Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)



Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?

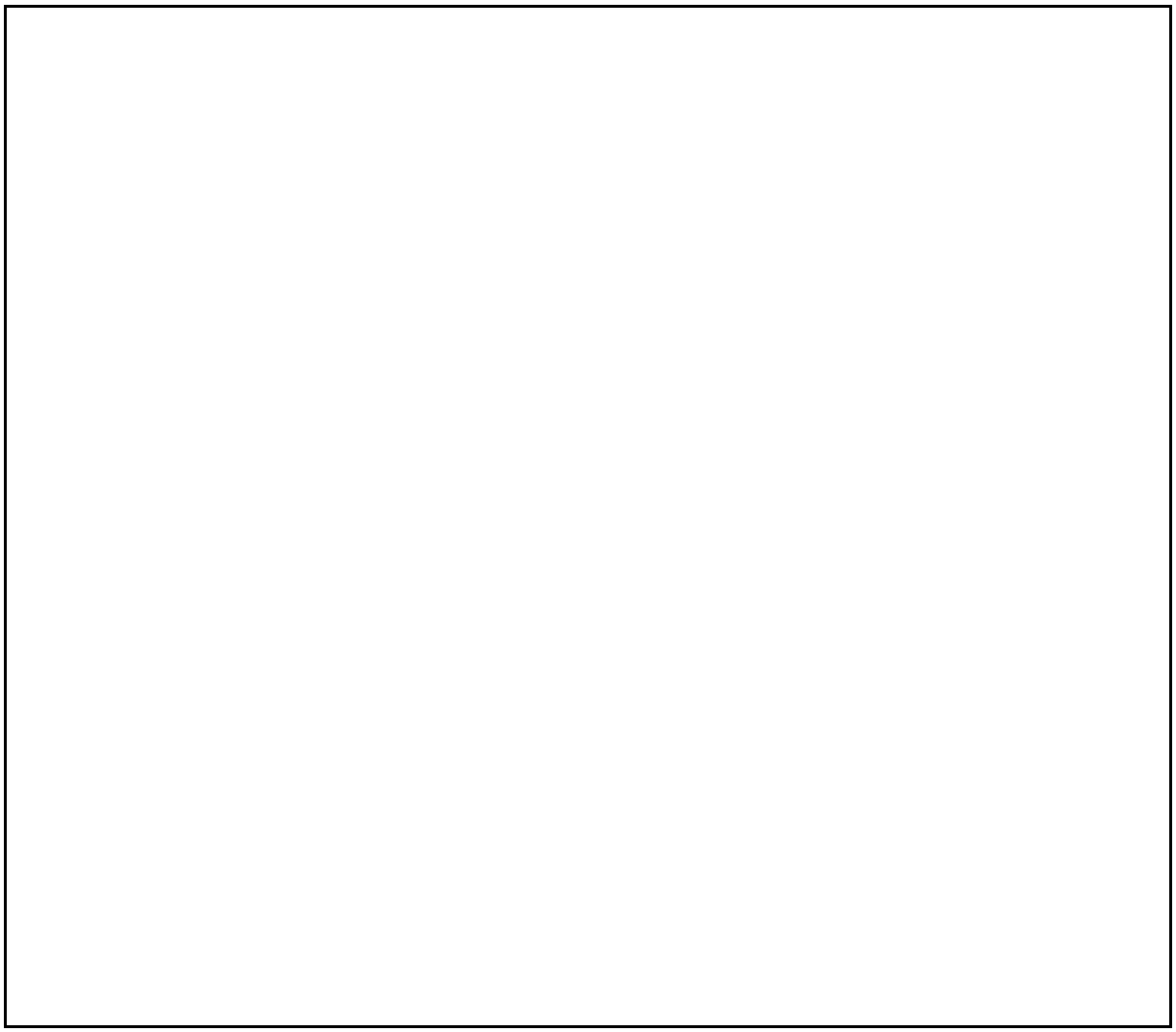
Visual inspection has been completed by specialist sub-contractor Dwayne Dixon of GeoEnginSeer Ltd on behalf of Gleeson Homes with the inspection completed concurrently with integrity testing.

These buildings have **PASSED** inspection.

An additional inspection IS NOT necessarily required for this plot. However, proof of covering the exposed membrane which could be a result of a design error to not have this protected in the first place is required.

Inspection by: H.B. Crowther

Signed: Ben Crowther: 04.04.24



GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

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-
-
-



GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Find your local stockist



Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

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Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Date Published: 22/09/2021

Visqueen Gas Barrier

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

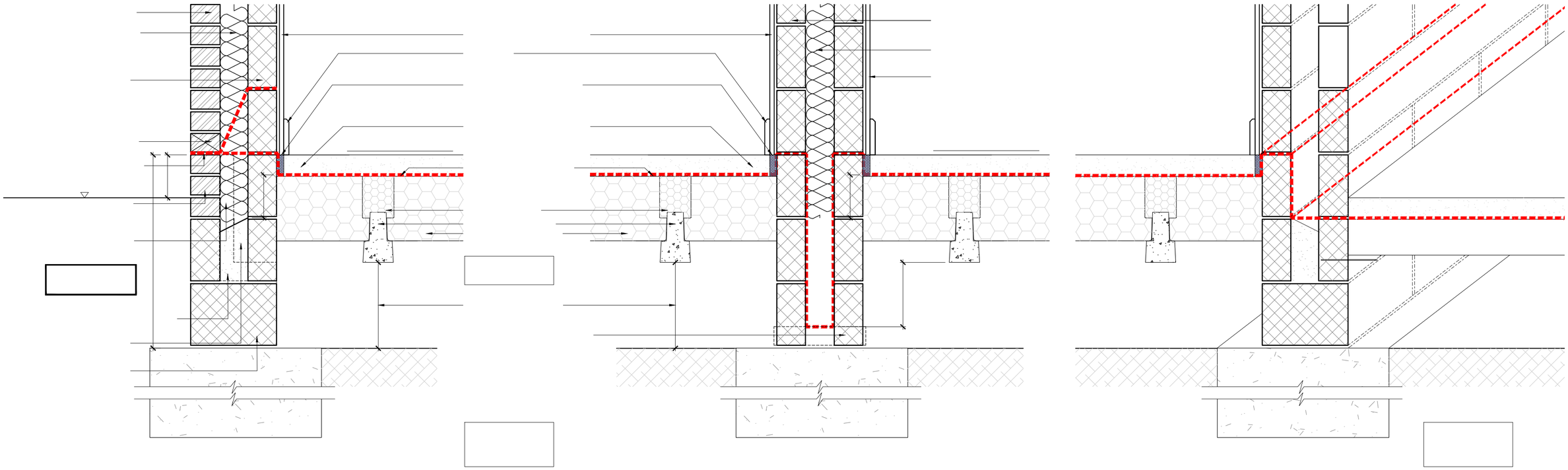
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

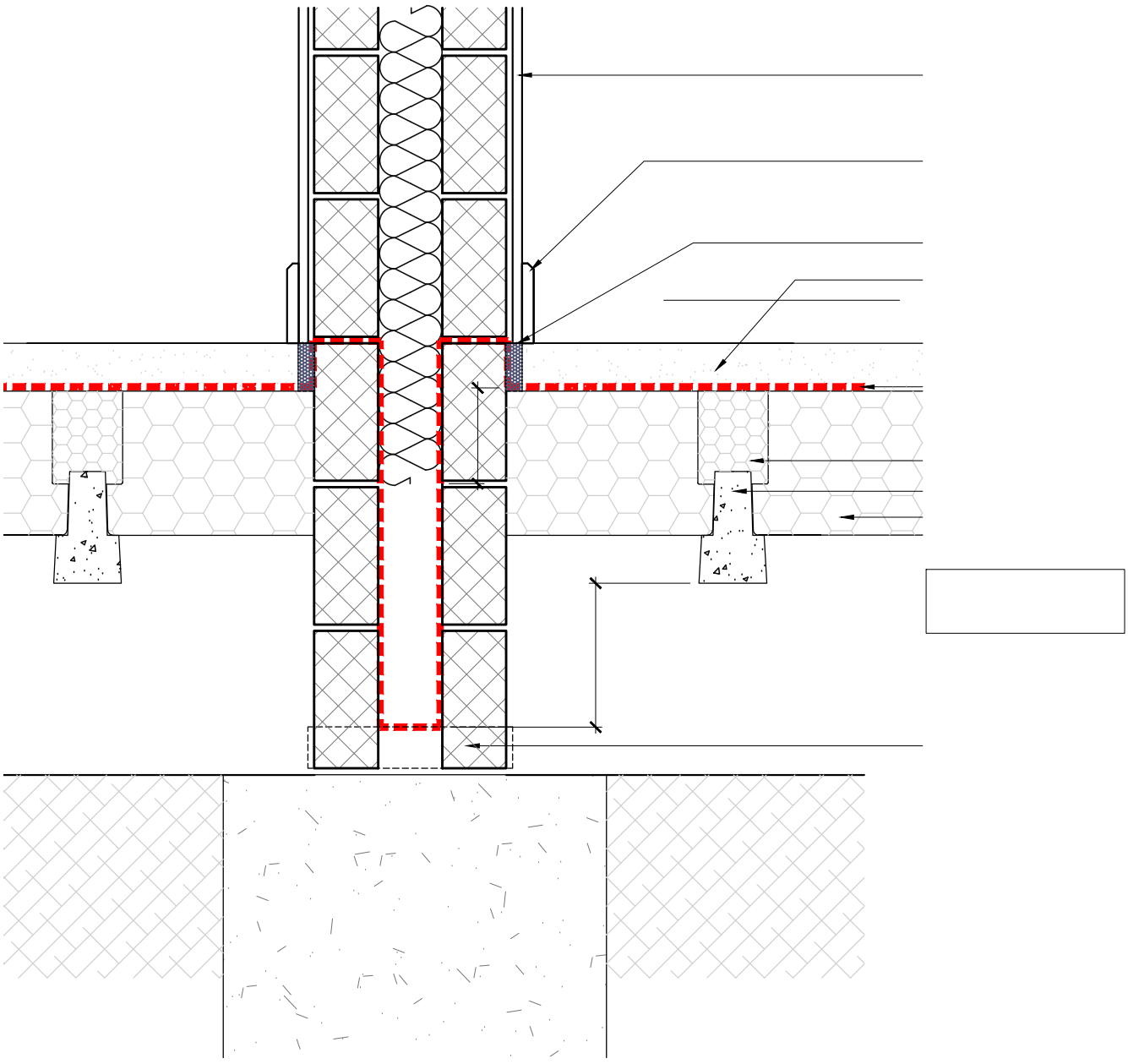
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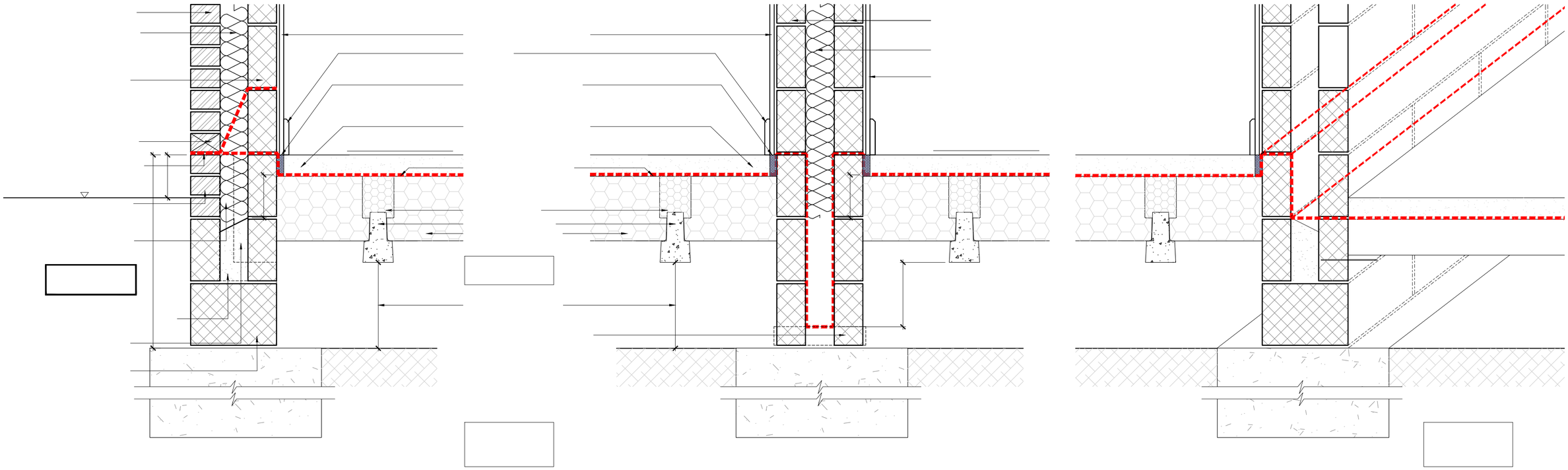
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gleeson



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gleeson



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	21.12.23 1400hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther

Salton Bay
Waters Edge
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

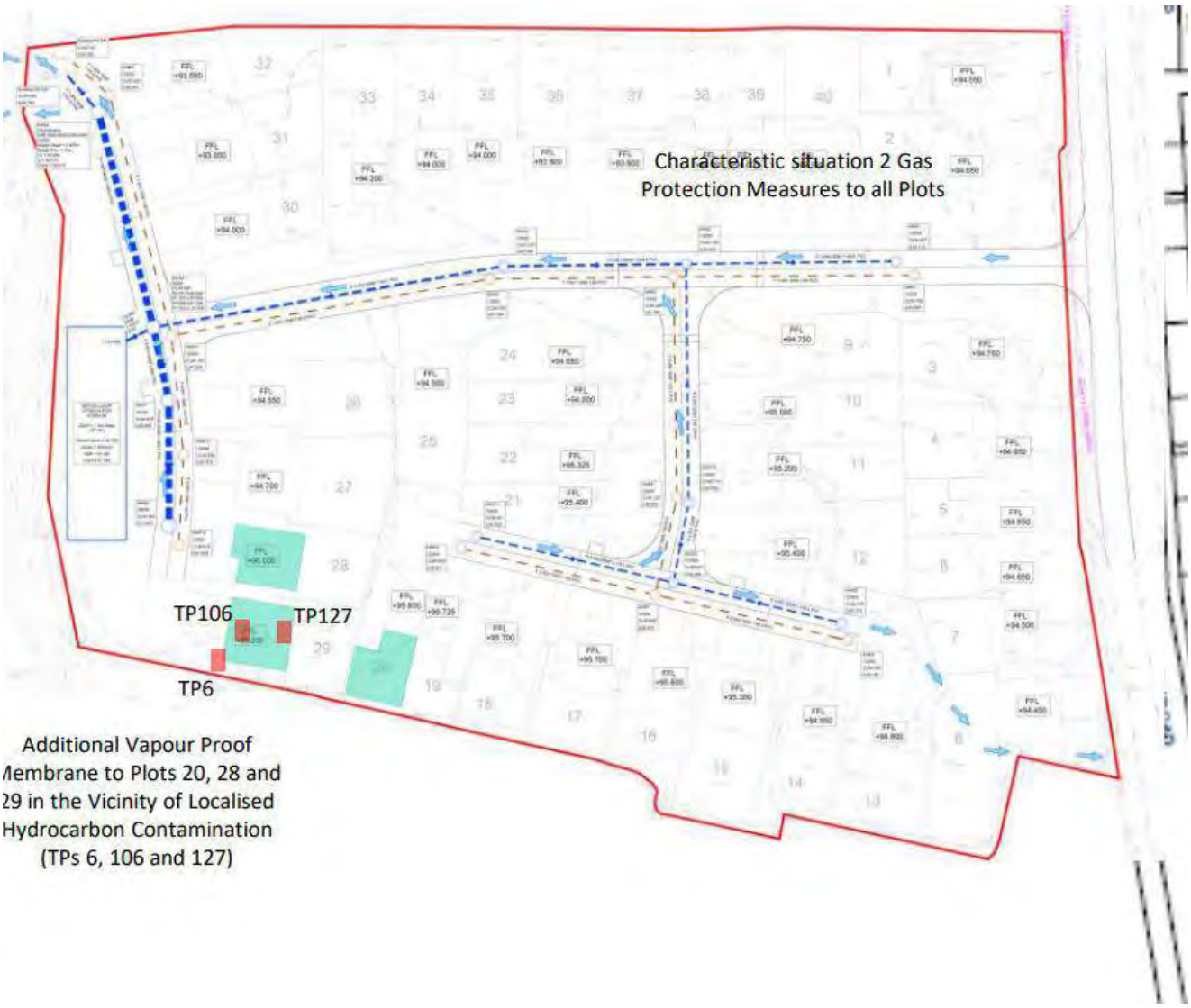
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)

Plot 9



Plot 10



Plot 11



Plot 37



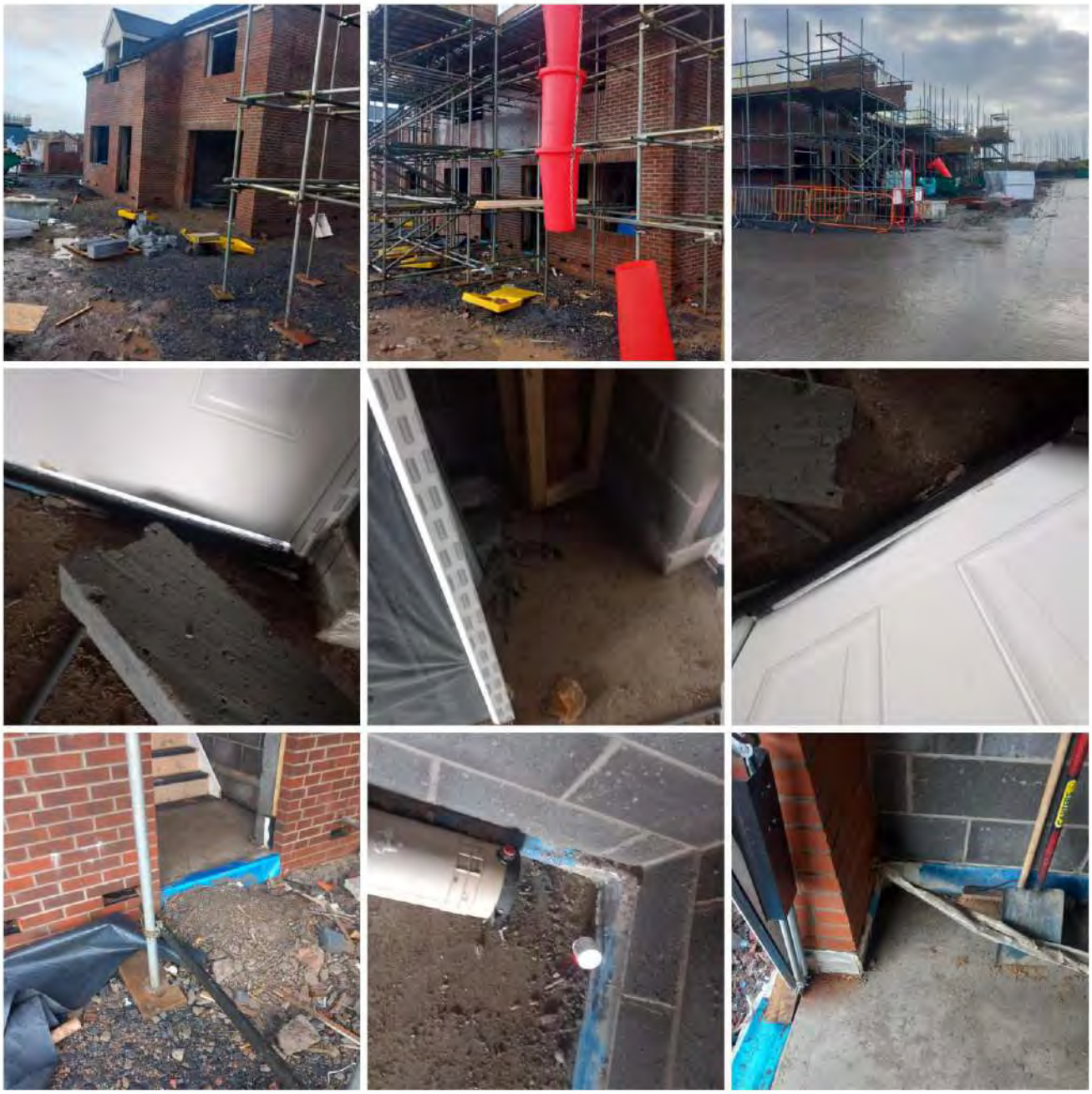
Plot 38 & 39



Plot 40







Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Nominal Pass for 9-11 and 37-39.

Remedial actions to be taken? Re-visit to be arranged?

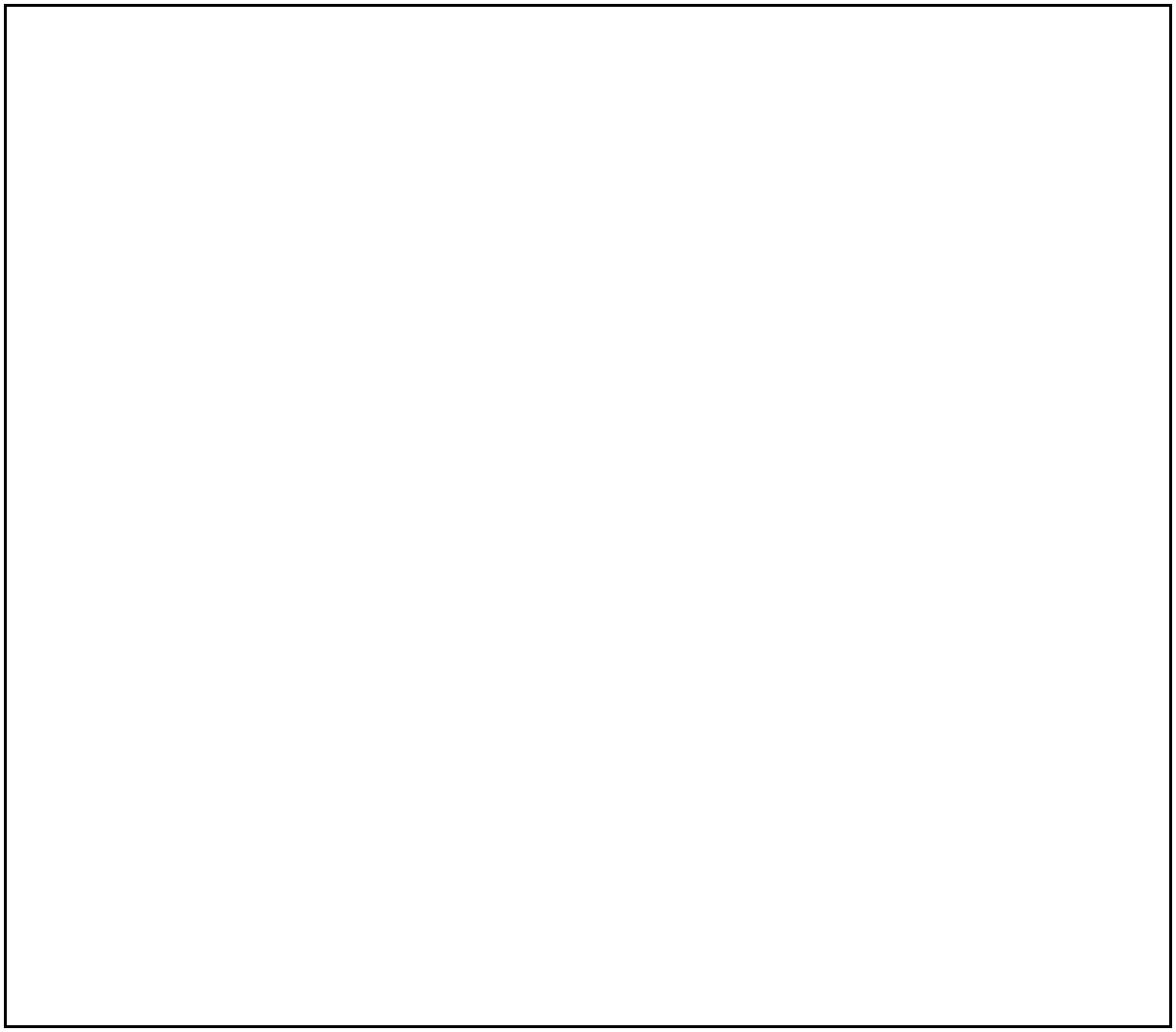
Visual inspection has been completed by specialist sub-contractor Paul Carter – Jones of GeoEnginSeer Ltd on behalf of Gleeson Homes with the inspection completed concurrently with integrity testing.

These buildings have **PASSED** inspection.

An additional inspection IS NOT required for these plots. However, proof of sealing the service conduit gap between services (water/gas/electric) outer face and the edge of the service conduit is requested.

Inspection by: H.B. Crowther

Signed: Ben Crowther: 22.12.23



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Geotechnical
&
Environmental Drilling Experts
&
Consultants

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_____ *B.Sc. (Hons), FGS.*

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Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

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Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
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To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

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Date Published: 22/09/2021

Visqueen Gas Barrier

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Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

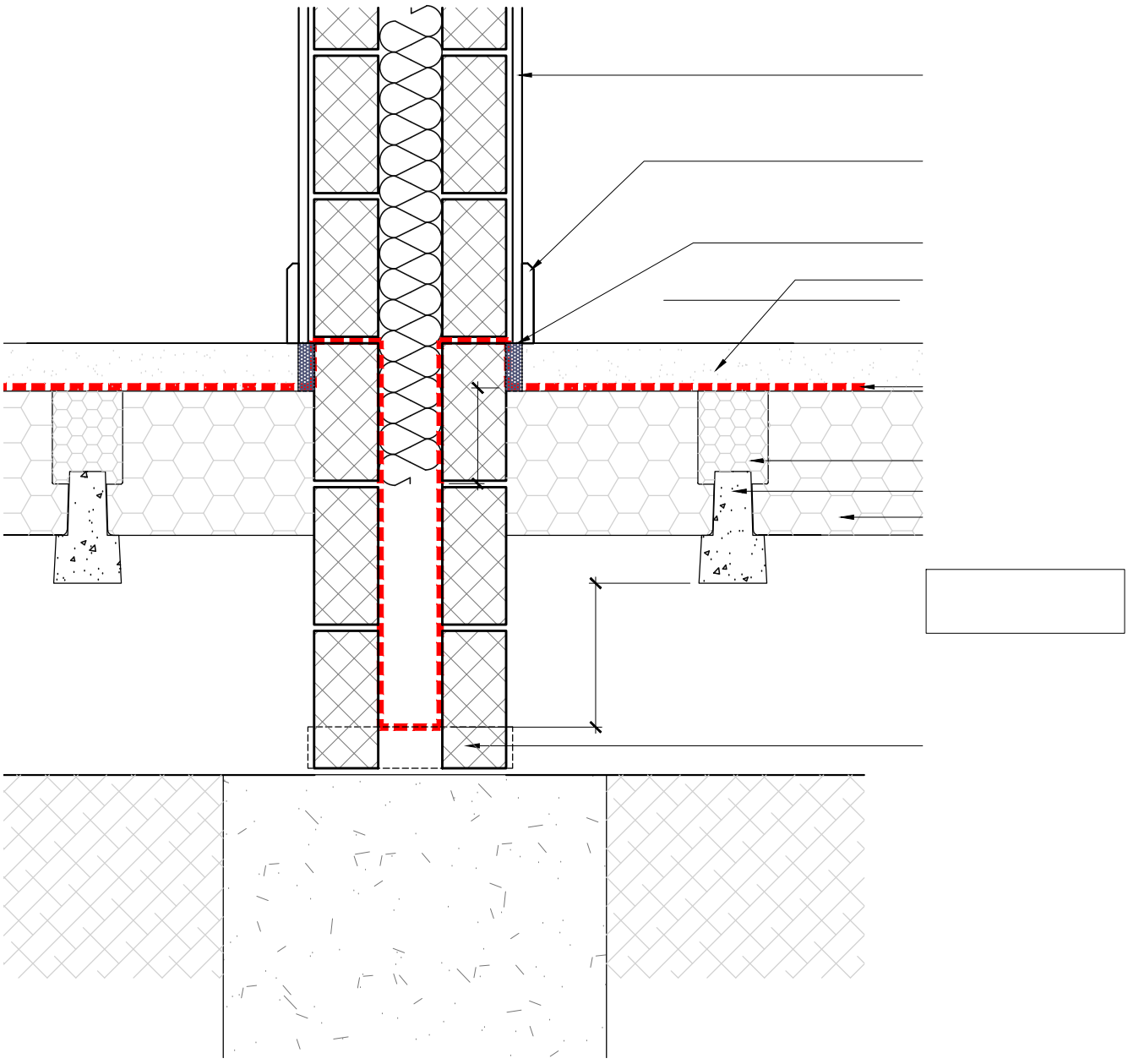
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

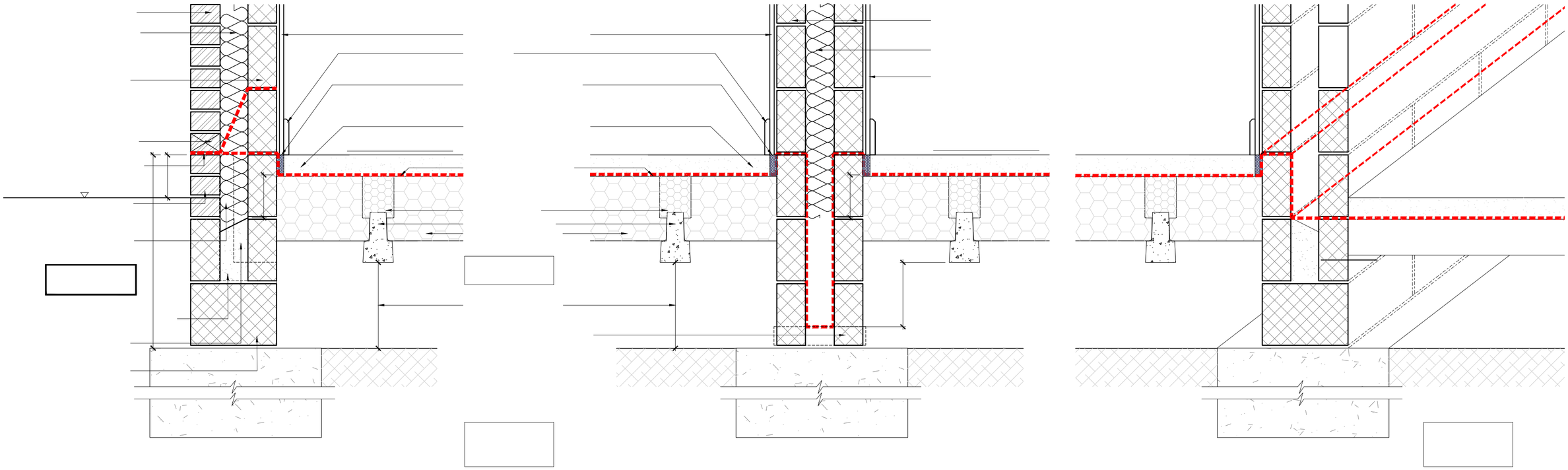
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Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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FREELANCE DILETTANTE GEOLOGIST

Waters Edge, High Road
Cumbria CA289QF

Date / Time:	07.11.22 1330hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther

Waters Edge, High Road
Cumbria CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




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Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?



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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Full Design Liability for Structural Waterproofing and Gas Protection

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
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Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

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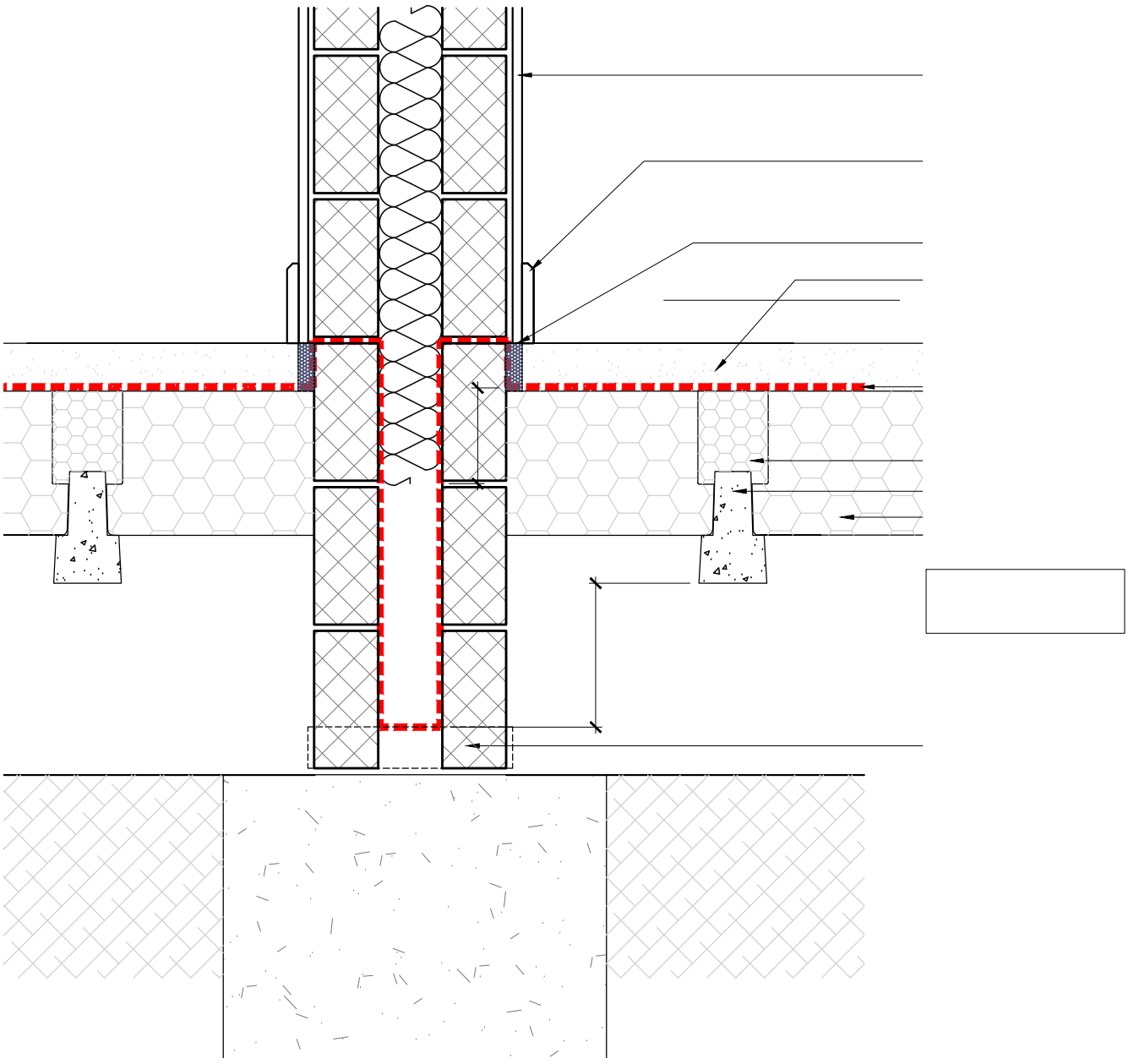
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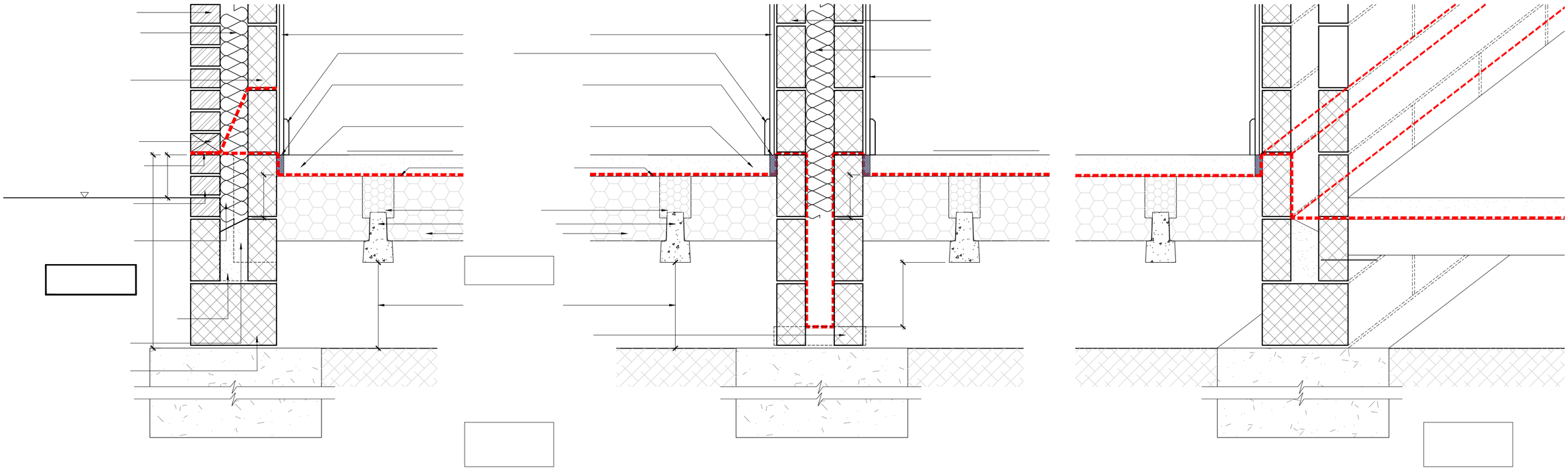
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FREELANCE DILETTANTE GEOLOGIST

Waters Edge, High Road
Cumbria CA289QF

Date / Time:	15.11.22 1130hrs

Signature 

Name: Ben Crowther

Signature 

Name: Ben Crowther



GeoEnvironmental Engineering on behalf of

Gleeson Homes
Waters Edge site
High Road
Cumbria
CA289QF

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Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

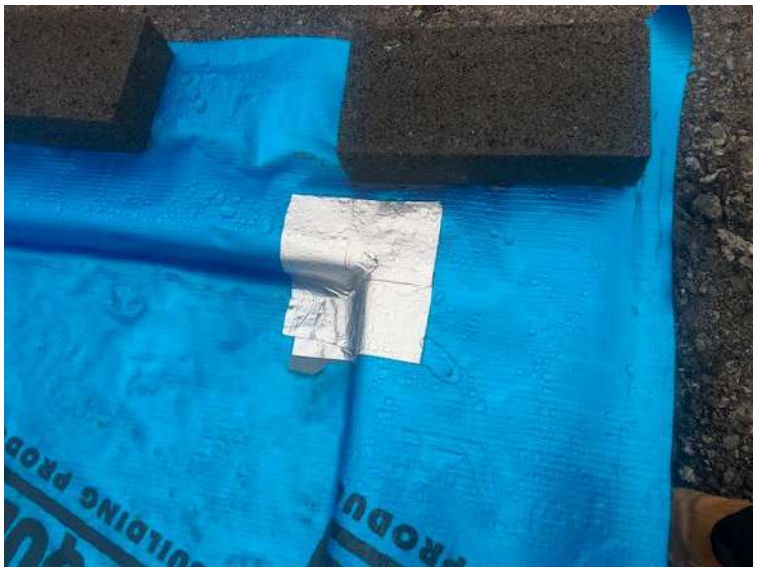
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Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

















Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV
For and on behalf of geoenginseer.
geoenginseer@gmail.com 07817 108921

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?



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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

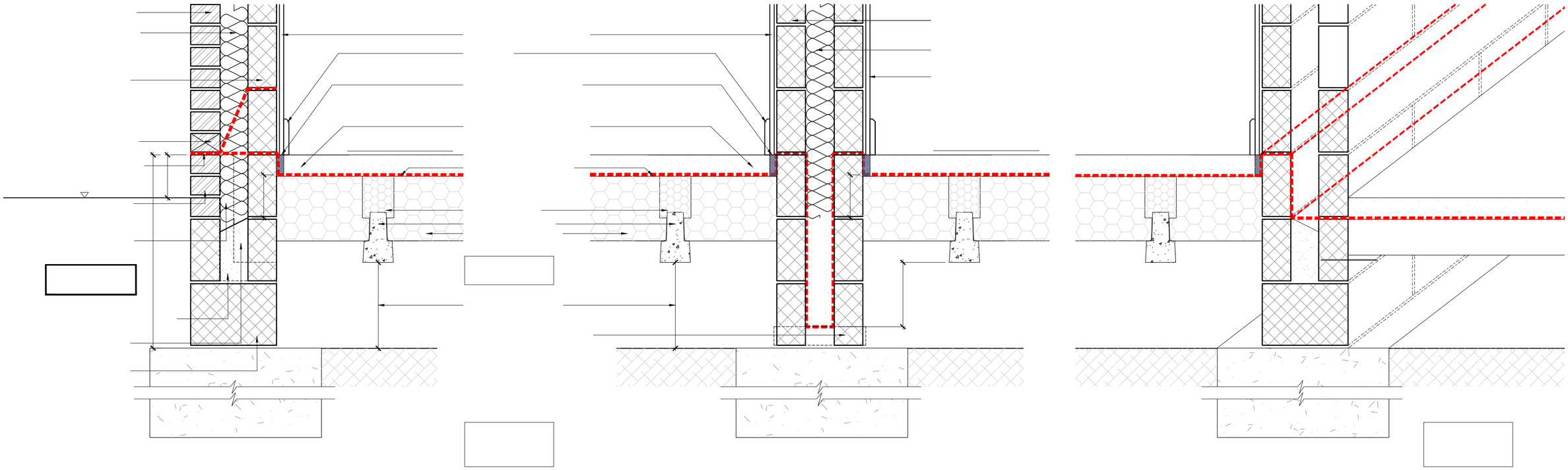
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Visqueen Training Academy

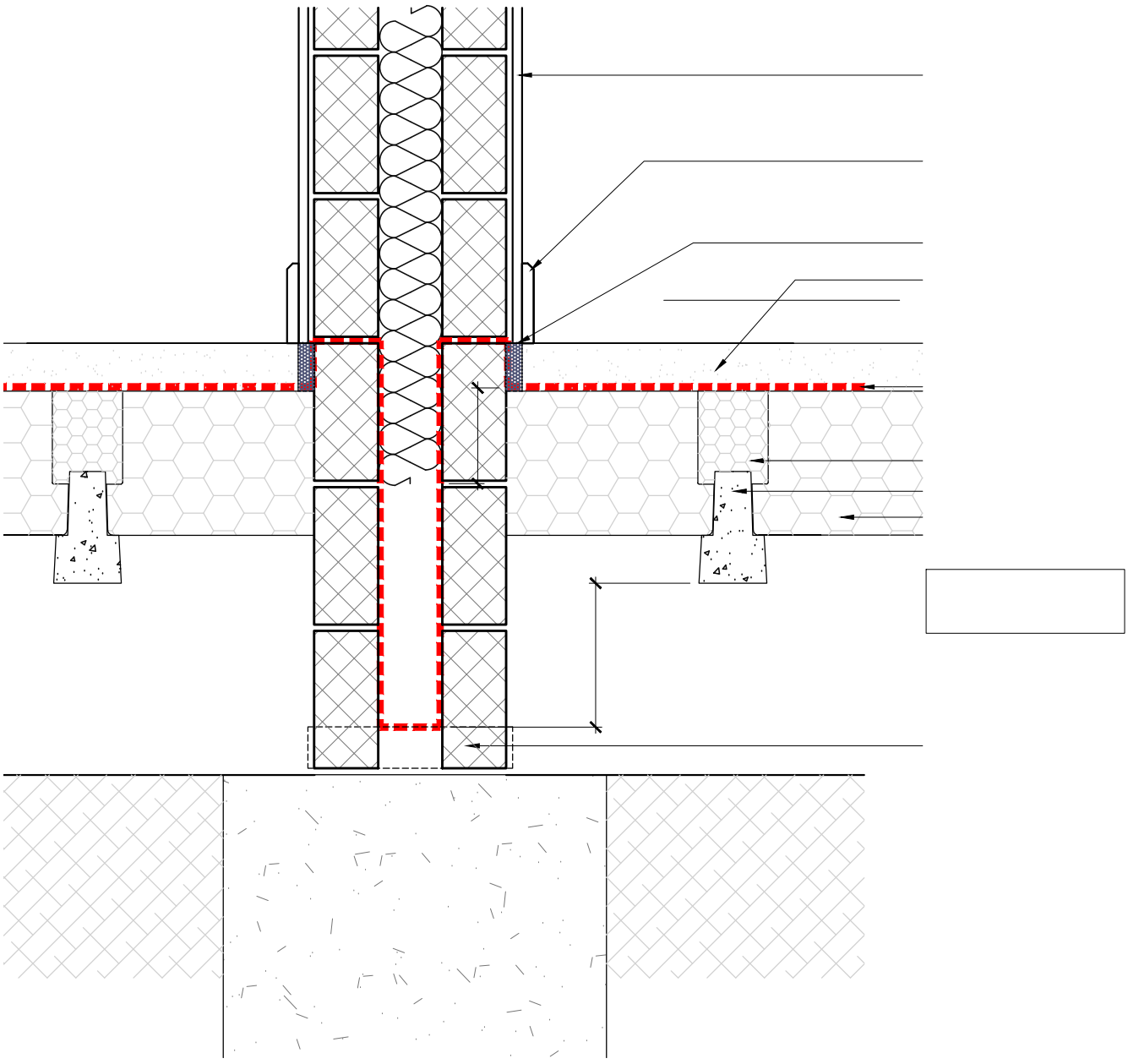
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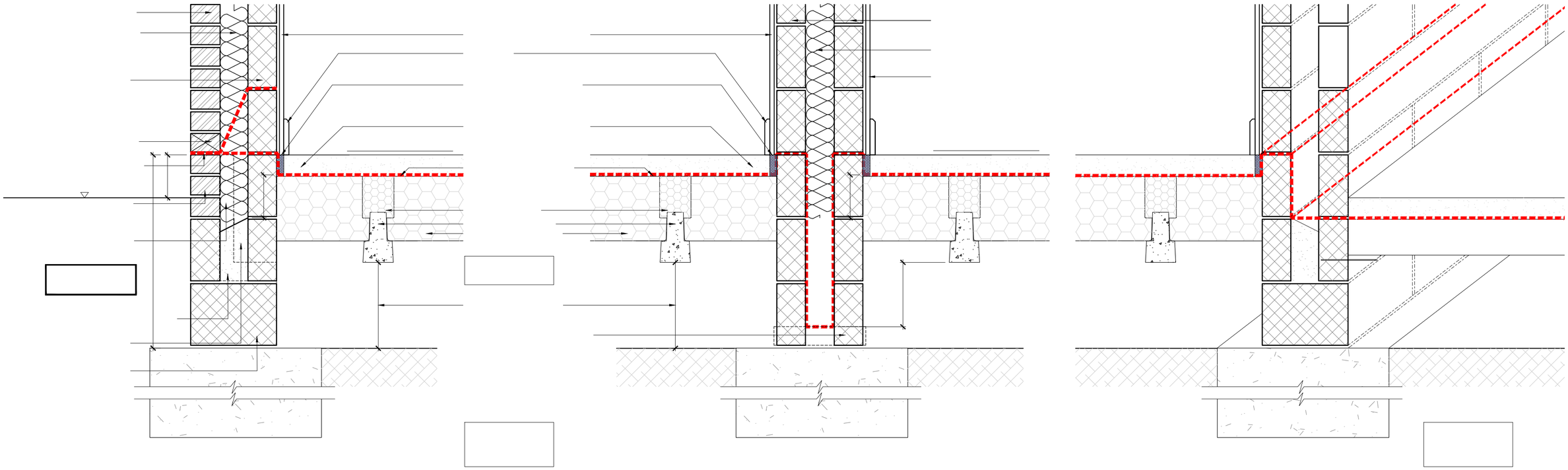
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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date	24.04.24

Signature



Name: Mairead Morony

Signature



Name: Ben Crowther



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Cowper Road
Gilwilly Industrial Estate
Penrith
Cumbria CA11 9BN

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Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

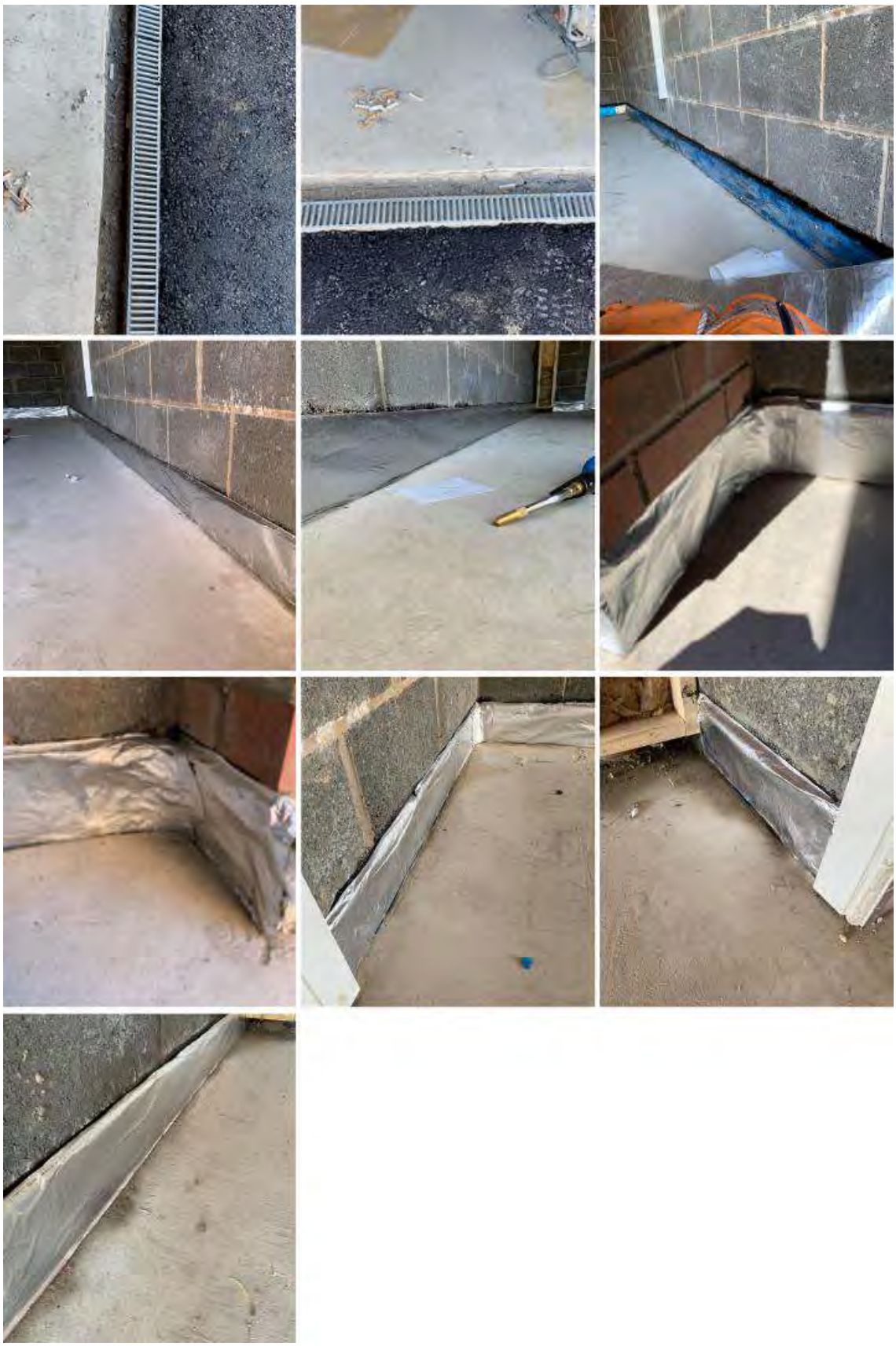
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

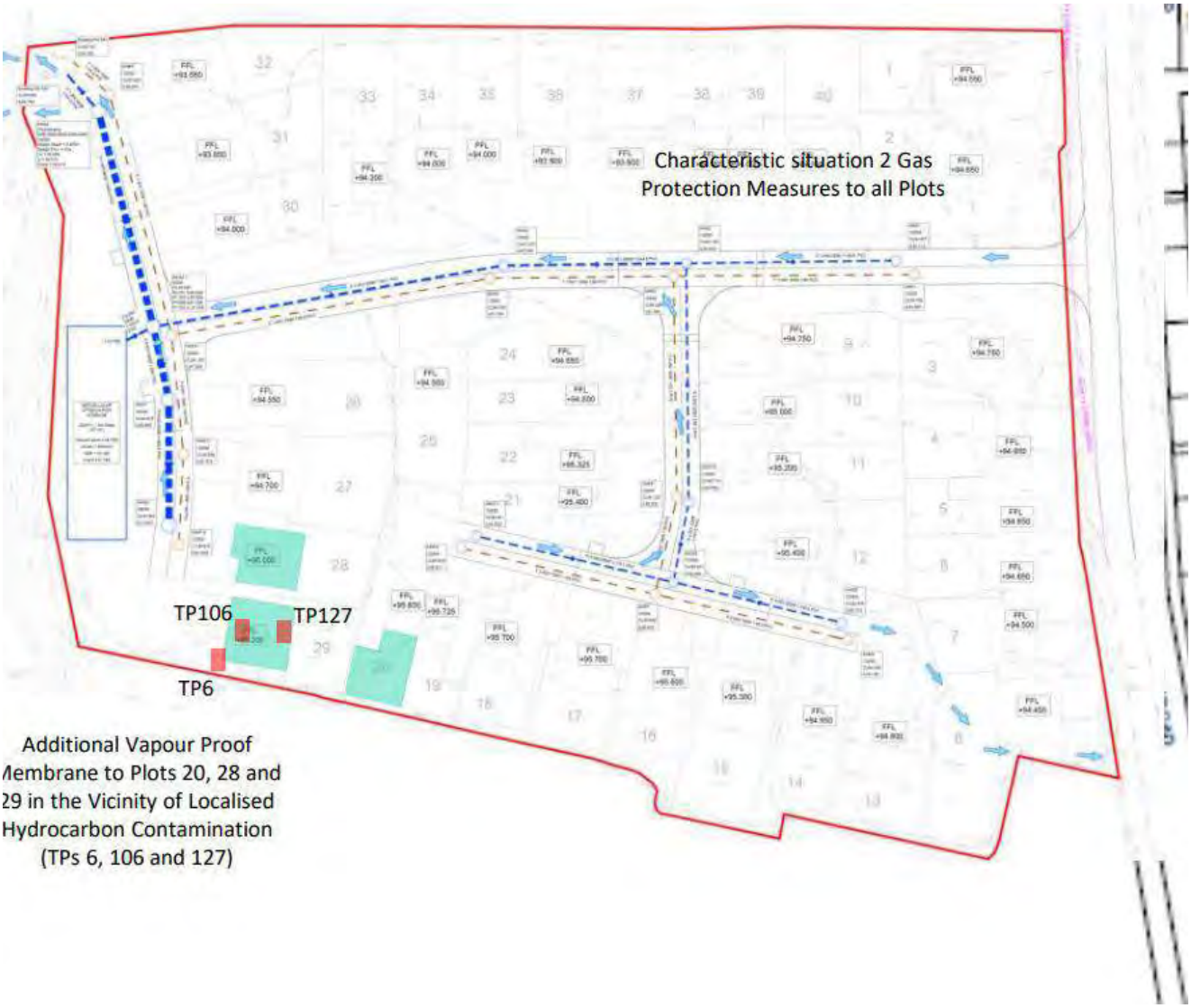
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Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?






Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
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Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)

Are the installers suitably qualified / trained? Names of installers / company details?

PRS Professional Remedial Services

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

PASS

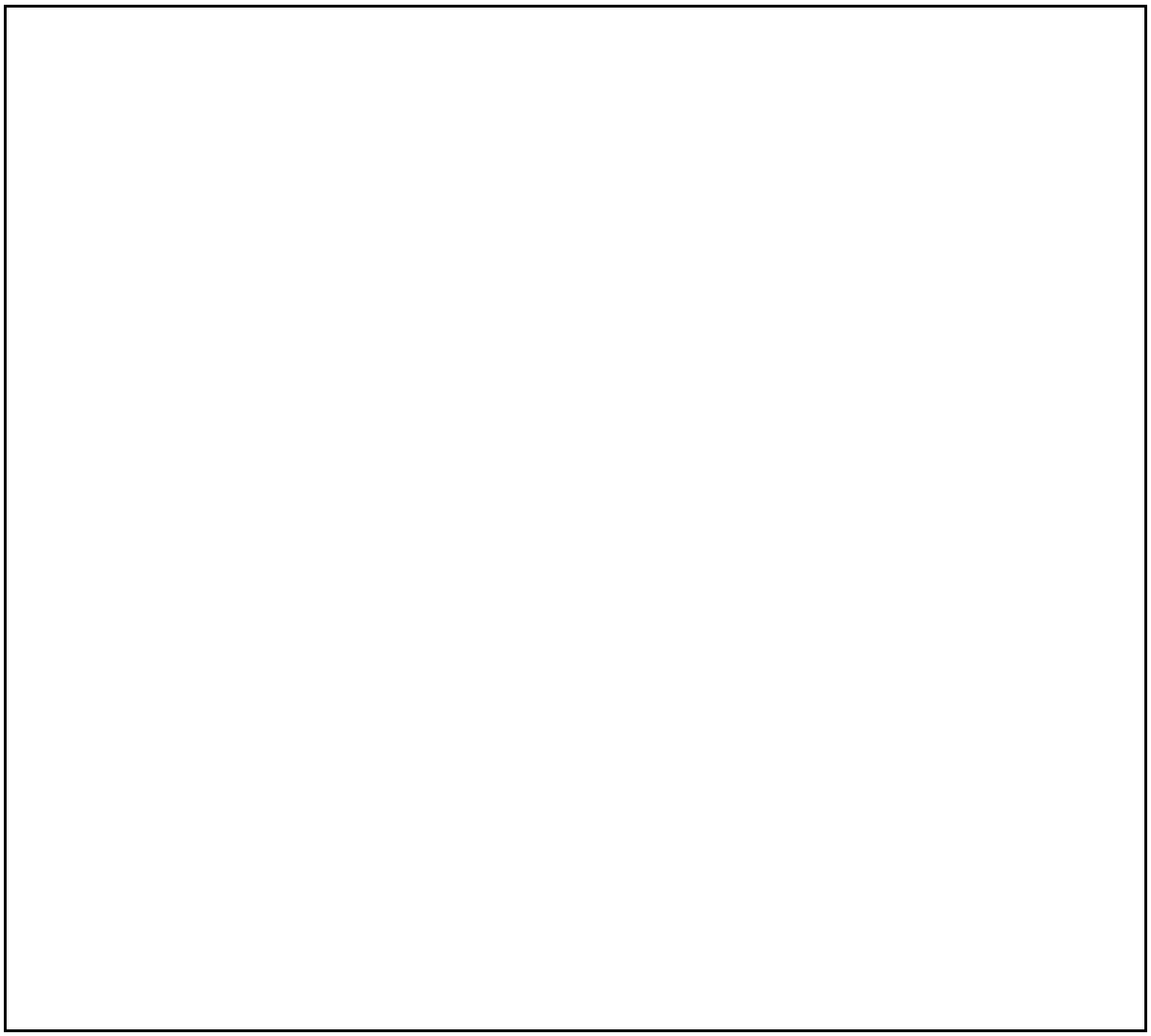
Remedial actions to be taken? Re-visit to be arranged?



THE RADON COUNCIL

Gas Protection Verification exp. 31.10.2023 BEN CROWTHER SGPV0004

BGA British Geomembrane Association



Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV
For and on behalf of geoenginseer.
www.Geoenginseer.co.uk 07817108921

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House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Find your local stockist



Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
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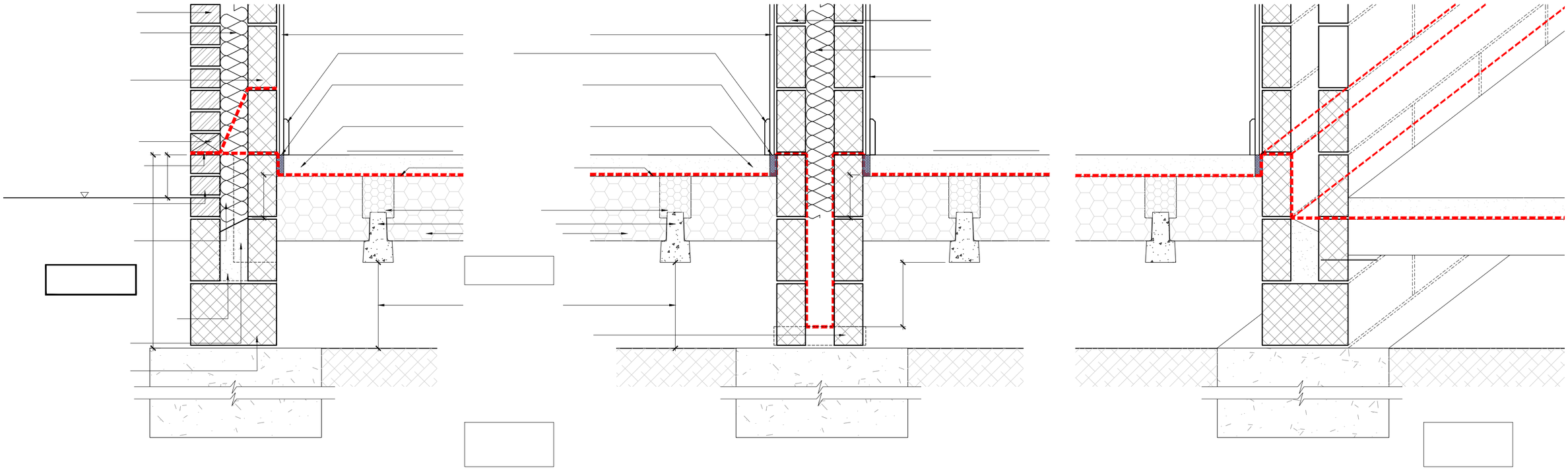
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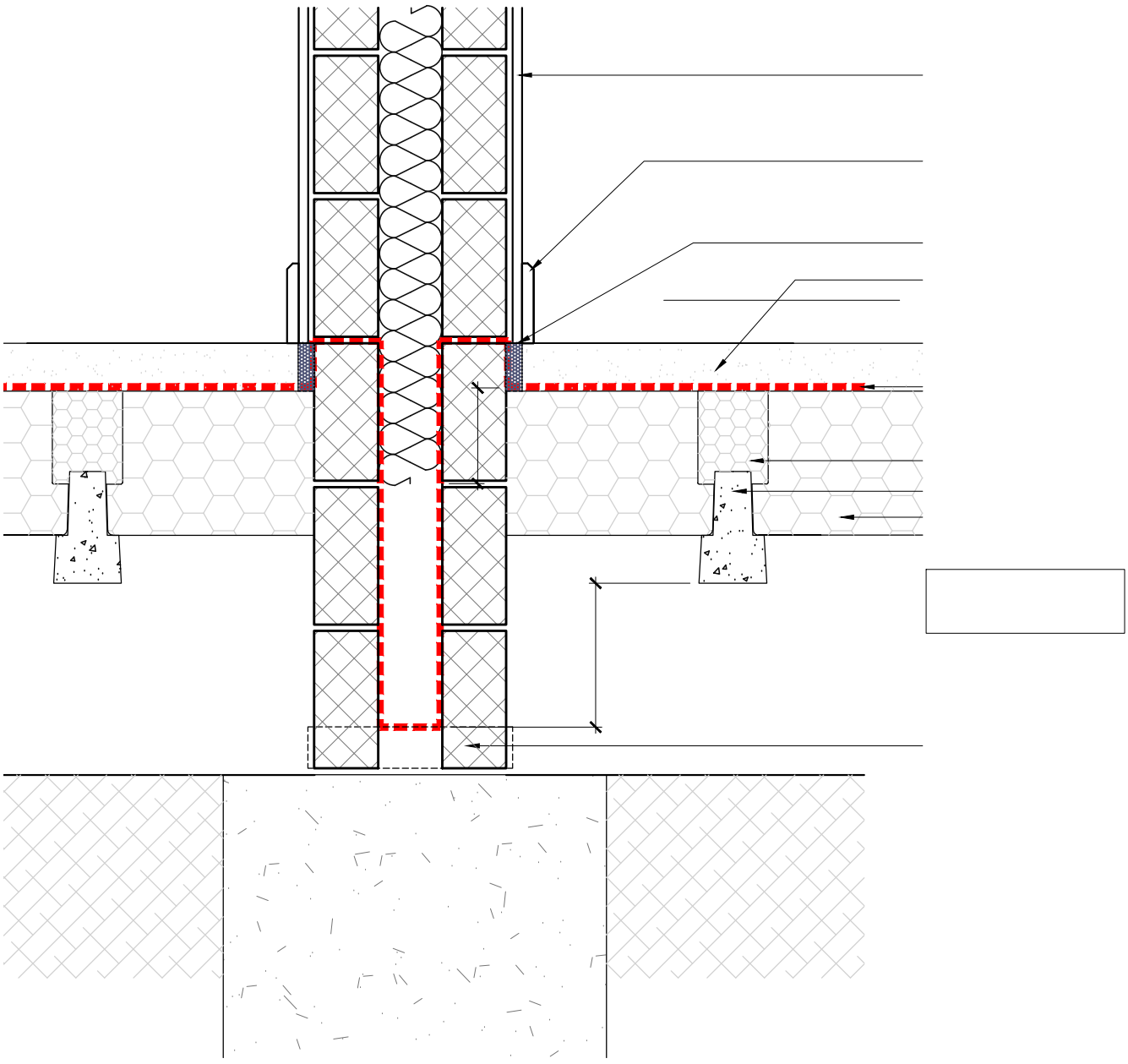
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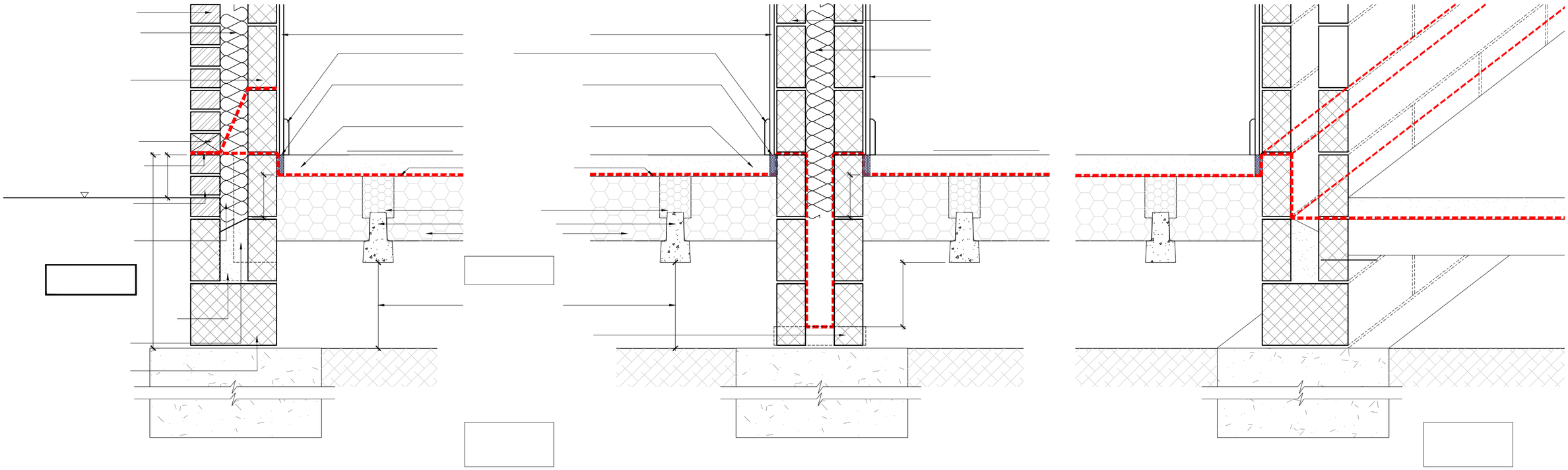
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FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date	15.04.24

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther



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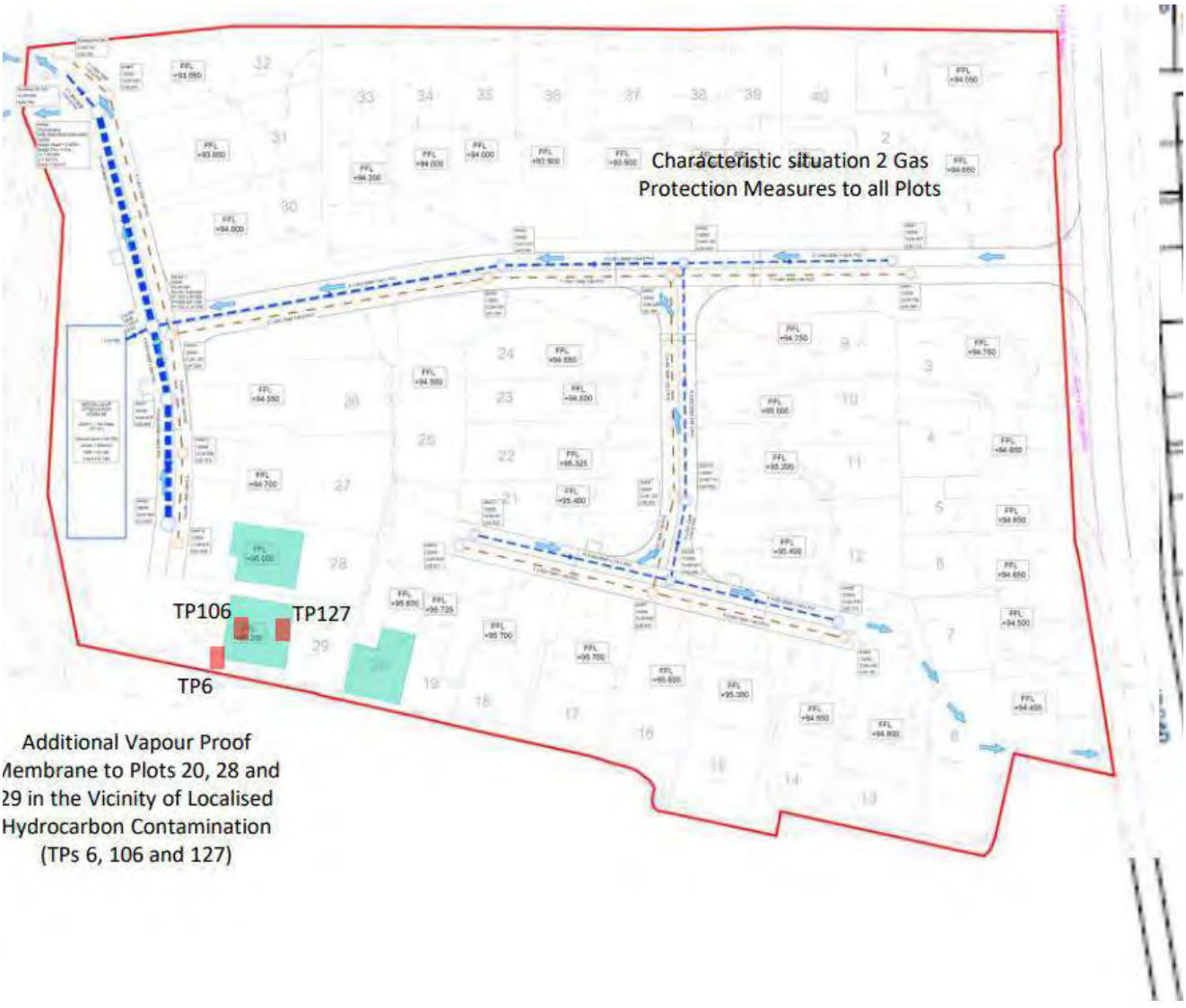
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TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)


and hardware
CAUTION
EXCEED 25kg











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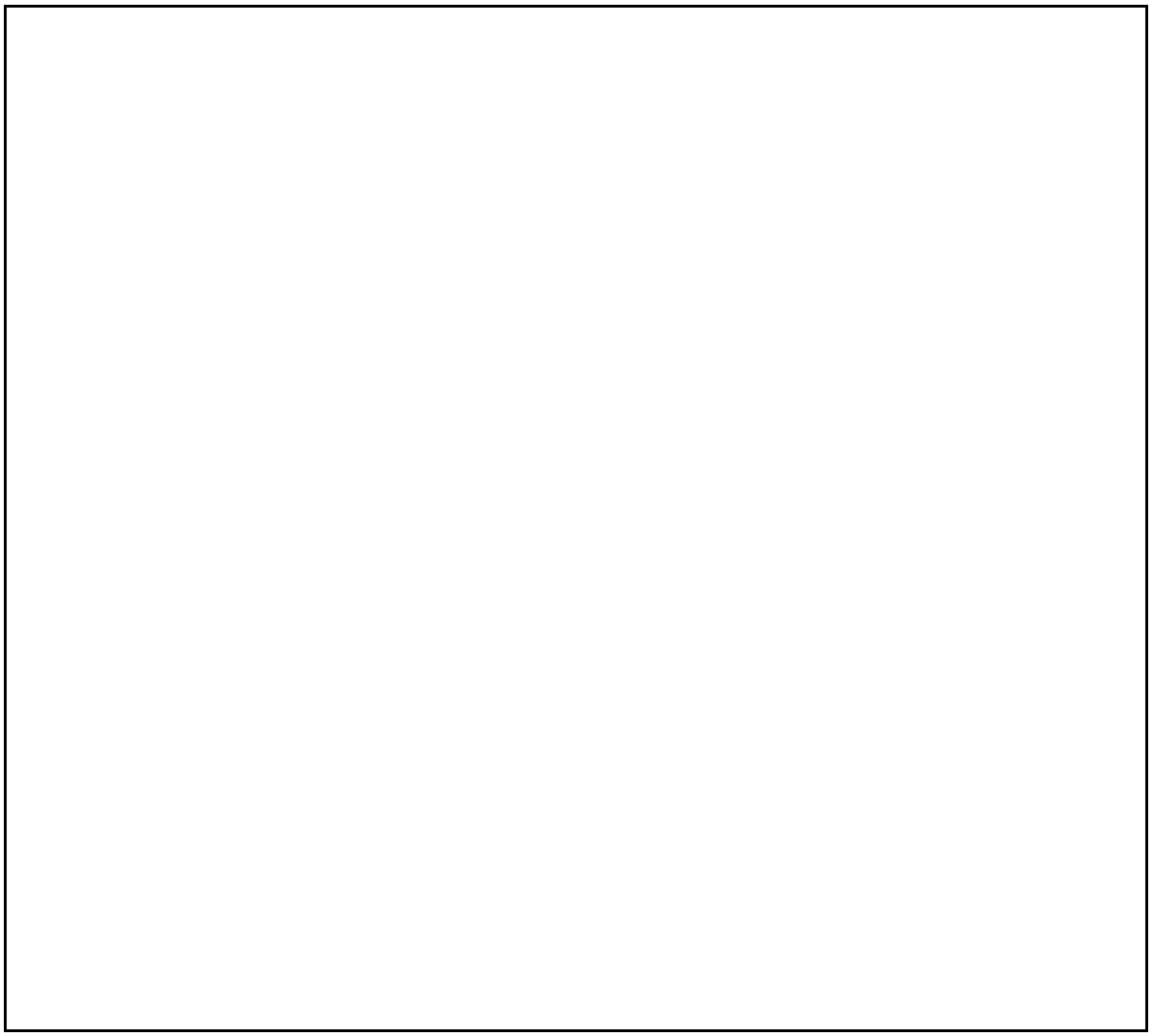
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Gas Protection Verification exp. 31.10.2023 BEN CROWTHER SGPV0004

BGA British Geomembrane Association



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Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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Technical support: +44 (0) 333 202 6800

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Visqueen Gas Barrier

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- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

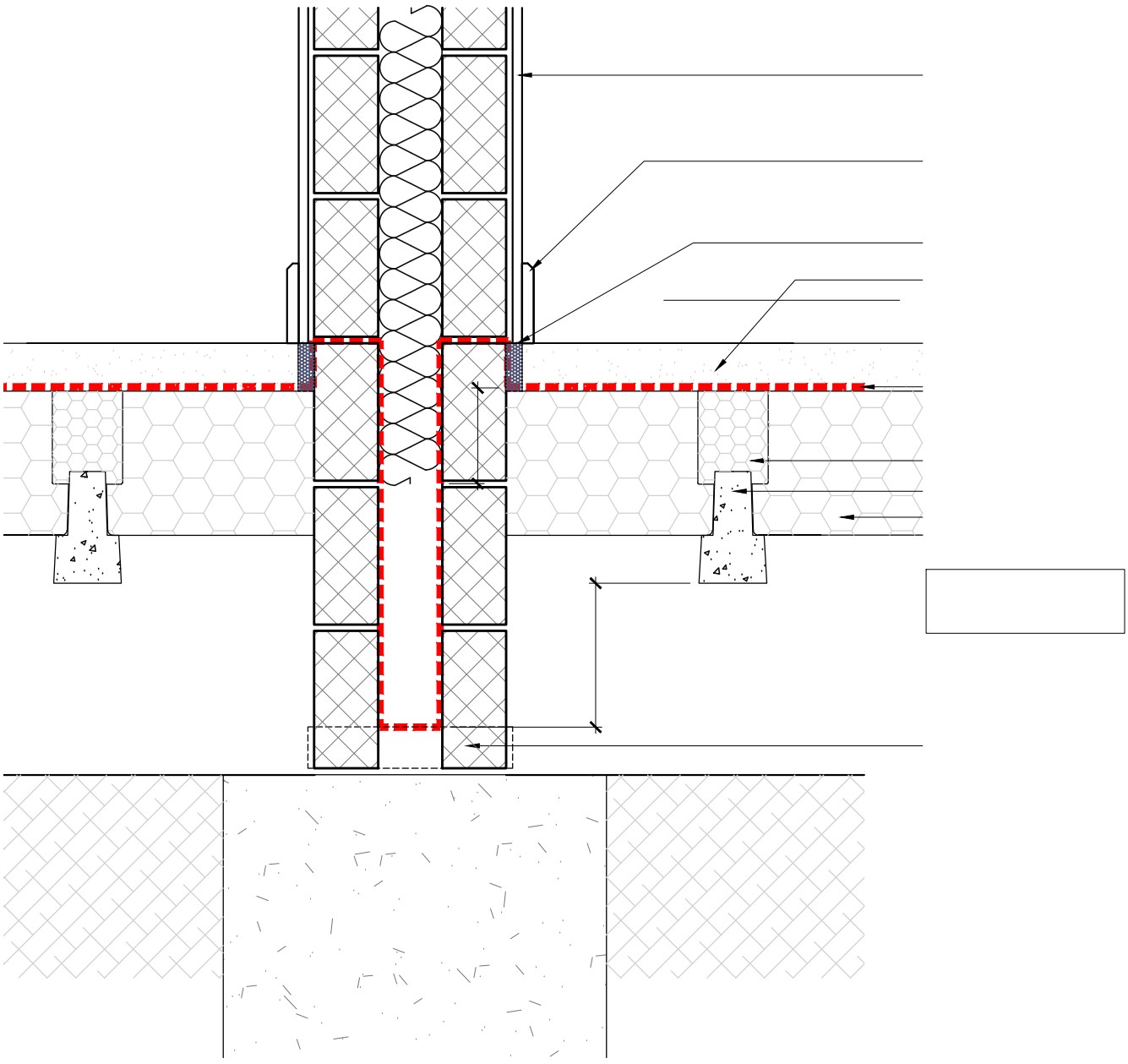
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

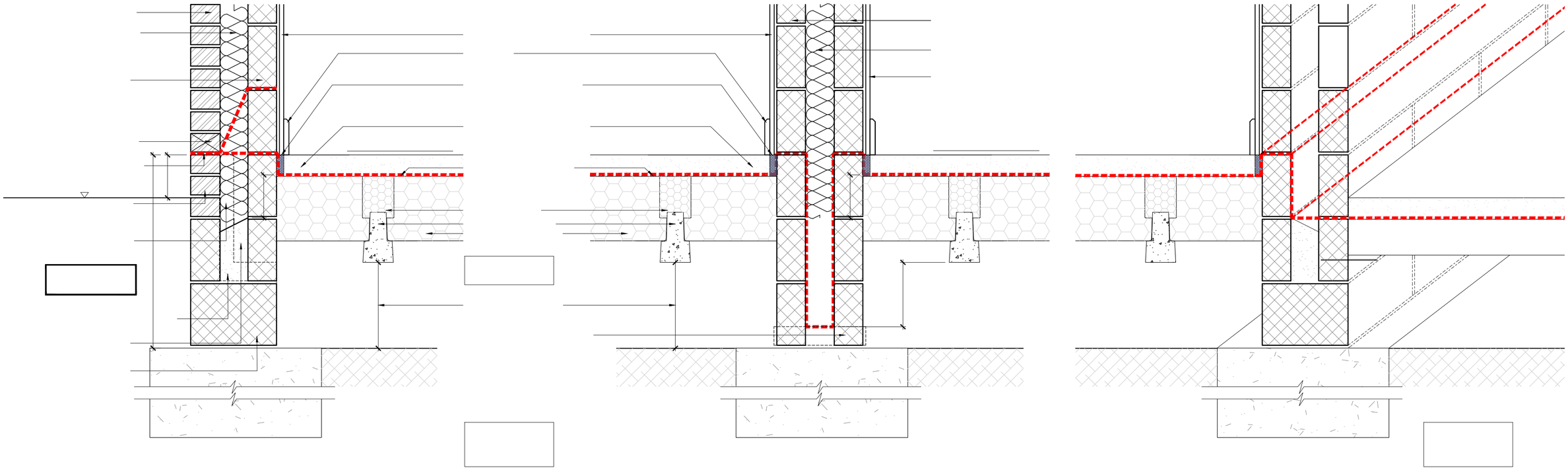
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Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	12.10.23 1430hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther



Waters Edge, High Road
Cumbria CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

achine

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?


Sales Parking Area
Sales Area
HIGH ROAD
94.6m
0 10 20 30 40 50m
NOTES AND AMENDMENTS
REVISIONS
House Type Quantity
201 2
254 3
301 8
309 4
304 3
341 8
360 3
435 6
436 3
Total# 40
ASHWOOD
DESIGN ASSOCIATES LTD
Planning
Gleeson Homes
Waters Edge
Site Layout
1839 001 d

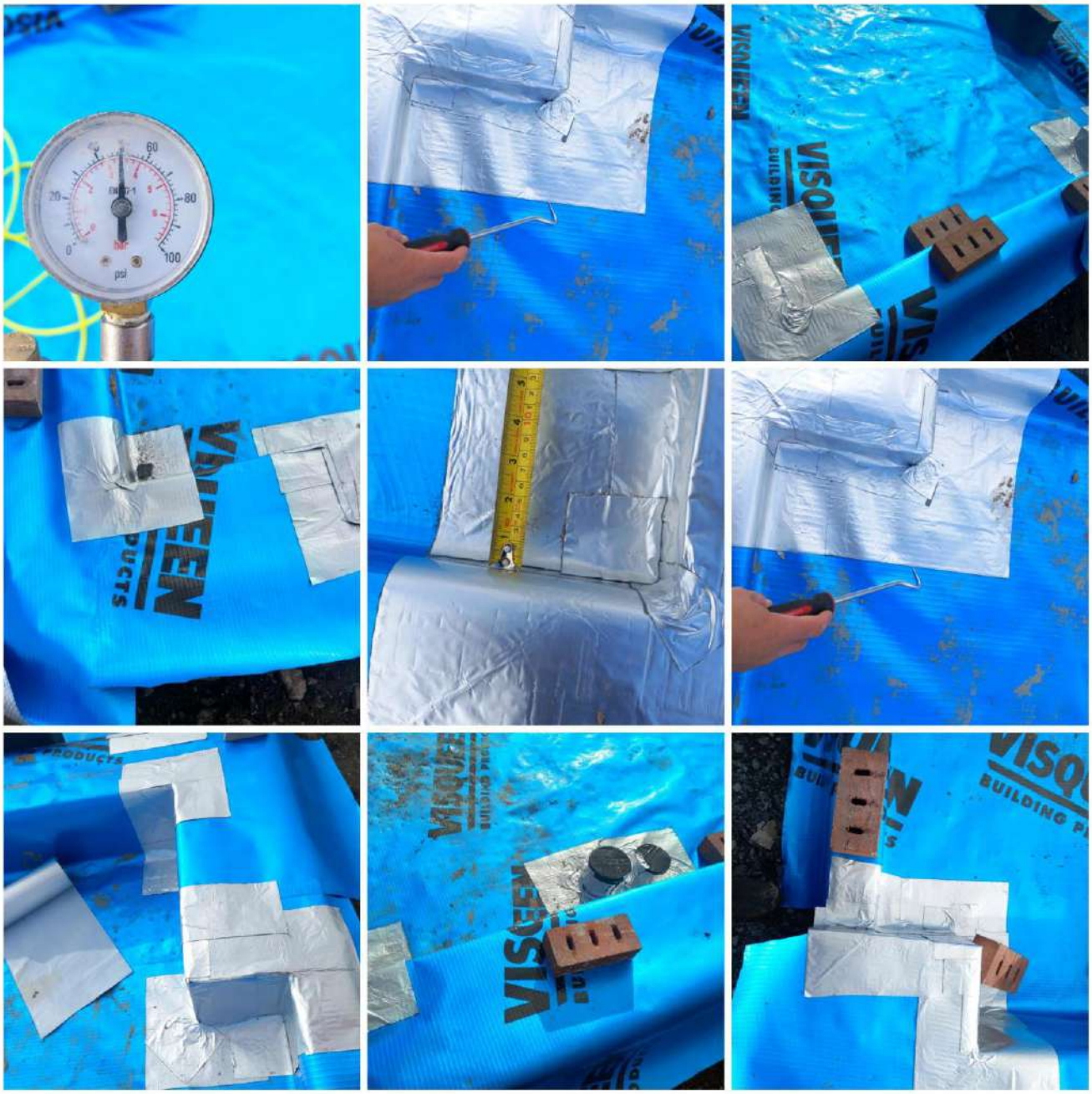

VISQUEEN
BUILDING









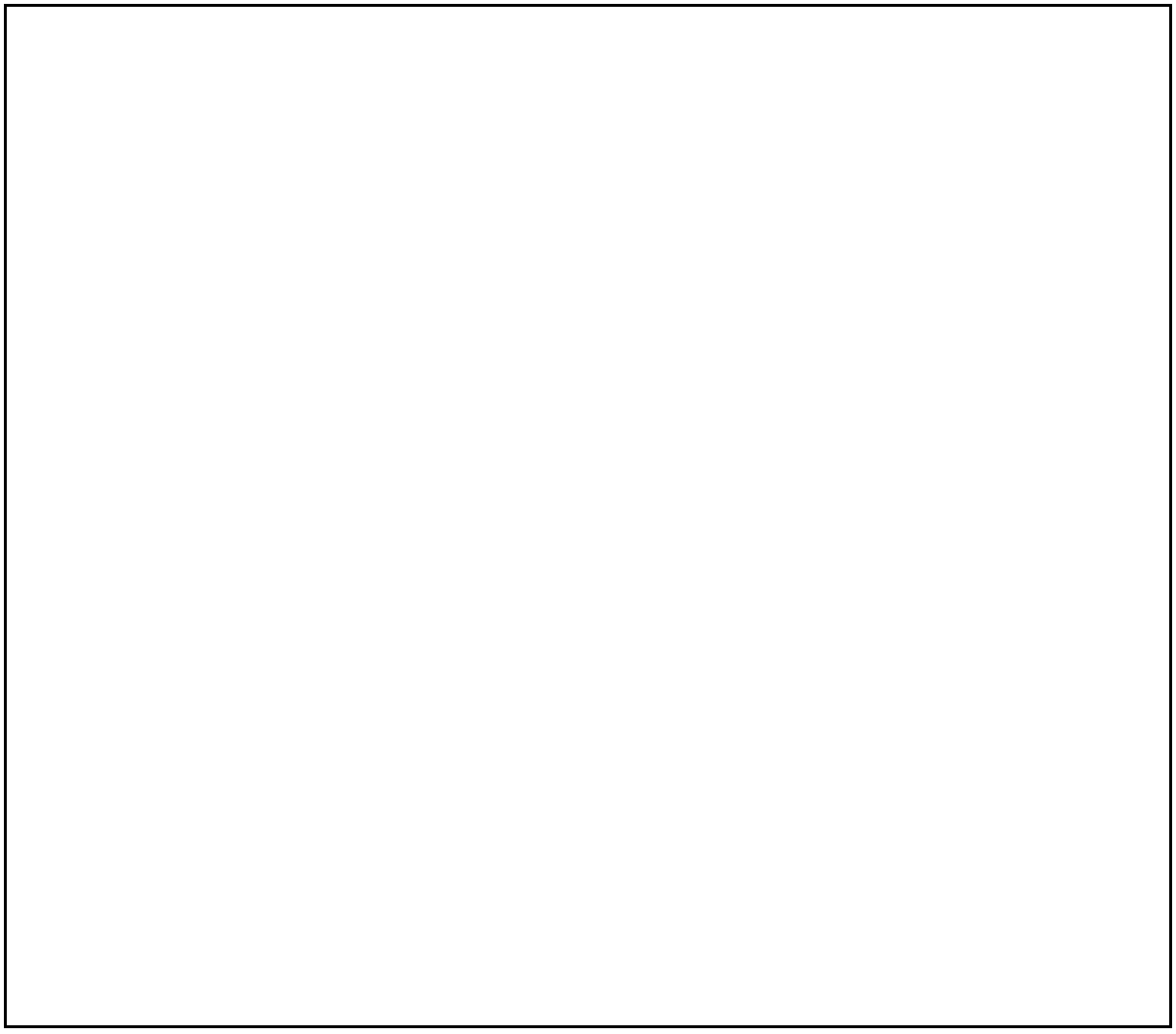

VISQUEEN
BUILDING PRODUCTS

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?





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-
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GEO
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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

-
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Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
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Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
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Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
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Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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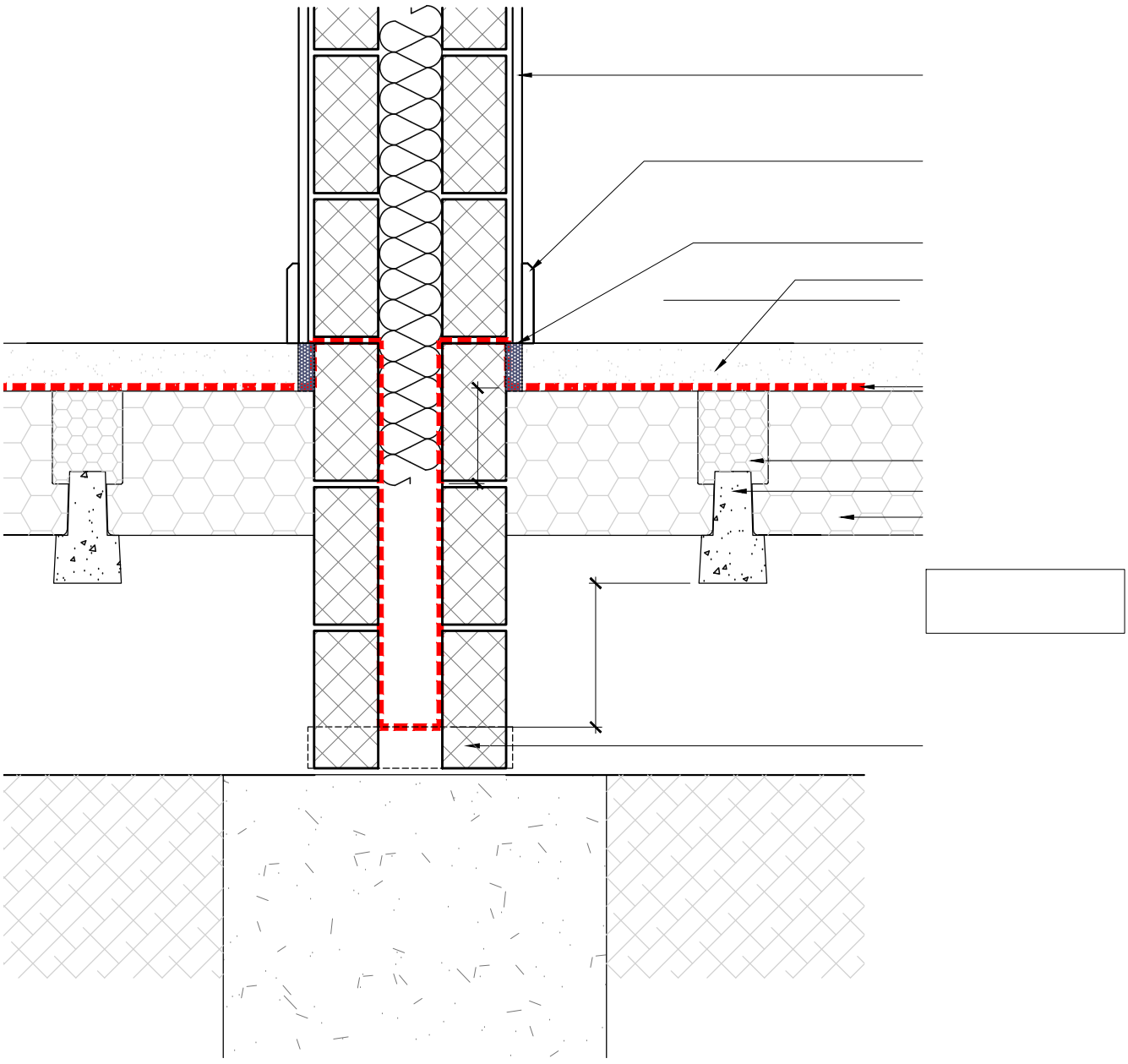
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Visqueen Training Academy

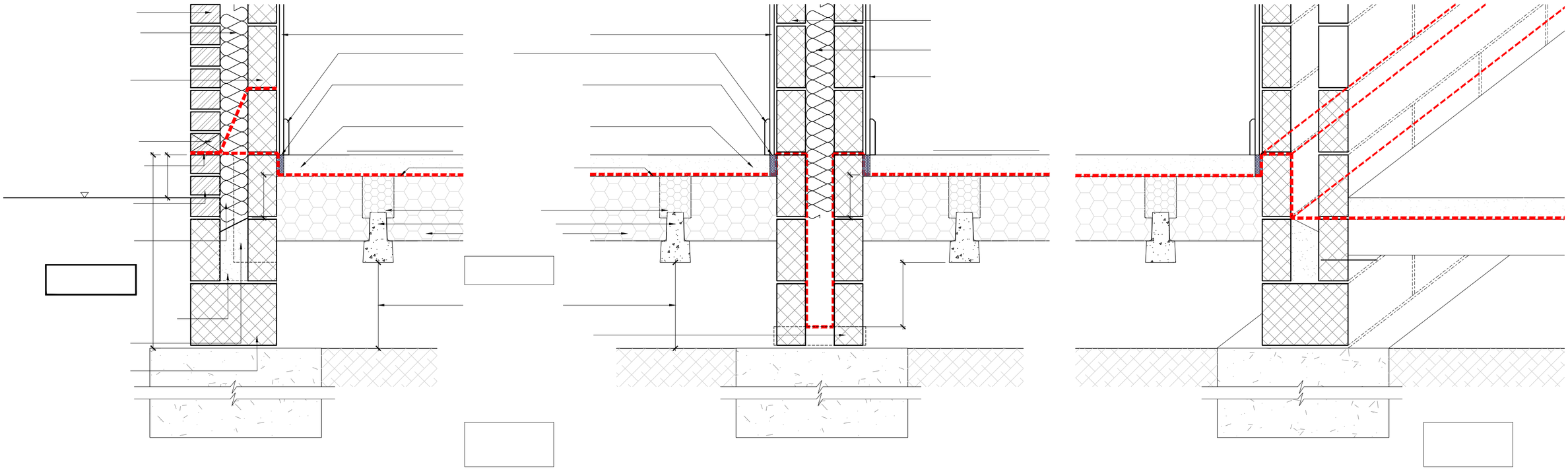
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FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	14.09.23 1600hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther



Waters Edge, High Road
Cumbria CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

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How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?


Sales Parking Area
Sales Area
HIGH ROAD
94.6m
0 10 20 30 40 50m
NOTES AND AMENDMENTS
REVISIONS
House Type Quantity
201 2
254 3
301 8
309 4
304 3
341 8
360 3
435 6
436 3
Total# 40
ASHWOOD
DESIGN ASSOCIATES LTD
Planning
Gleeson Homes
Waters Edge
Site Layout
1839 001 d


40
60
20
80
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100
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VISQUEEN

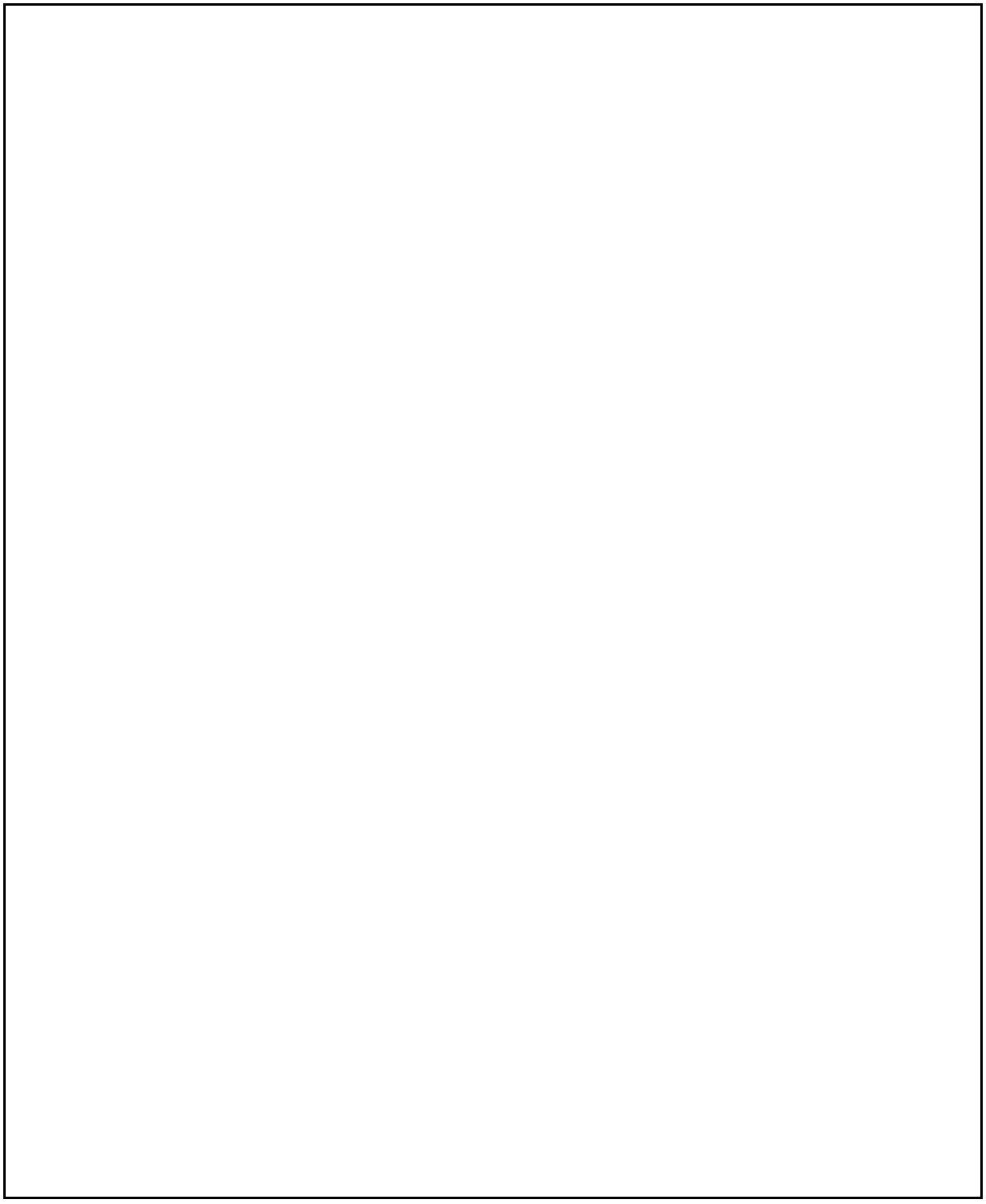

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VISQUEEN

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?





GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Find your local stockist



Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

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Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

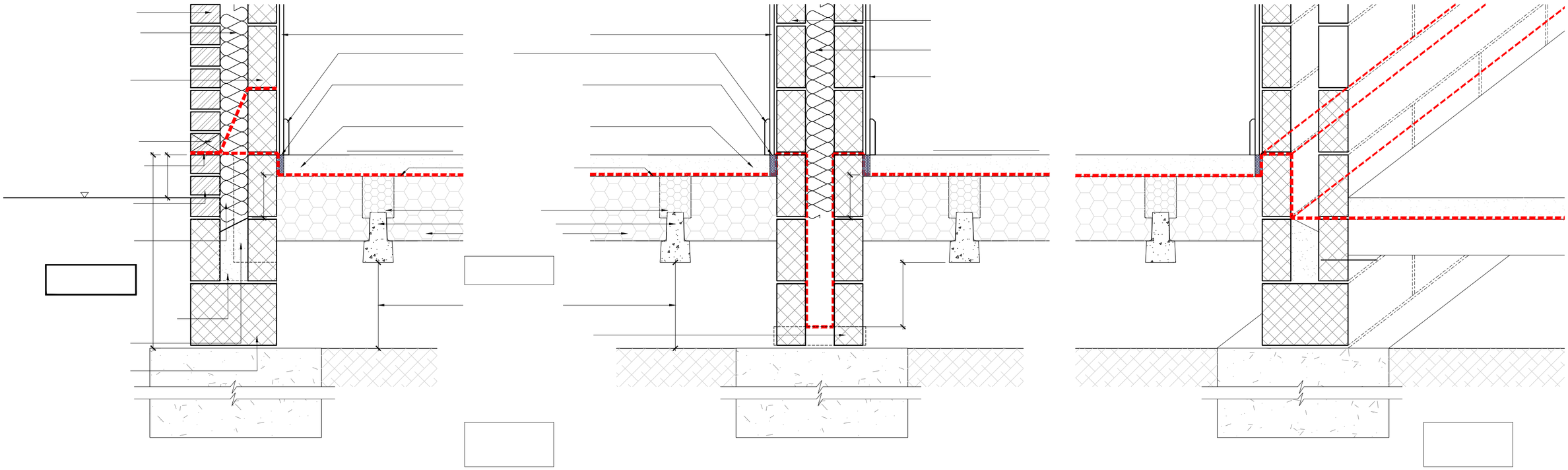
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

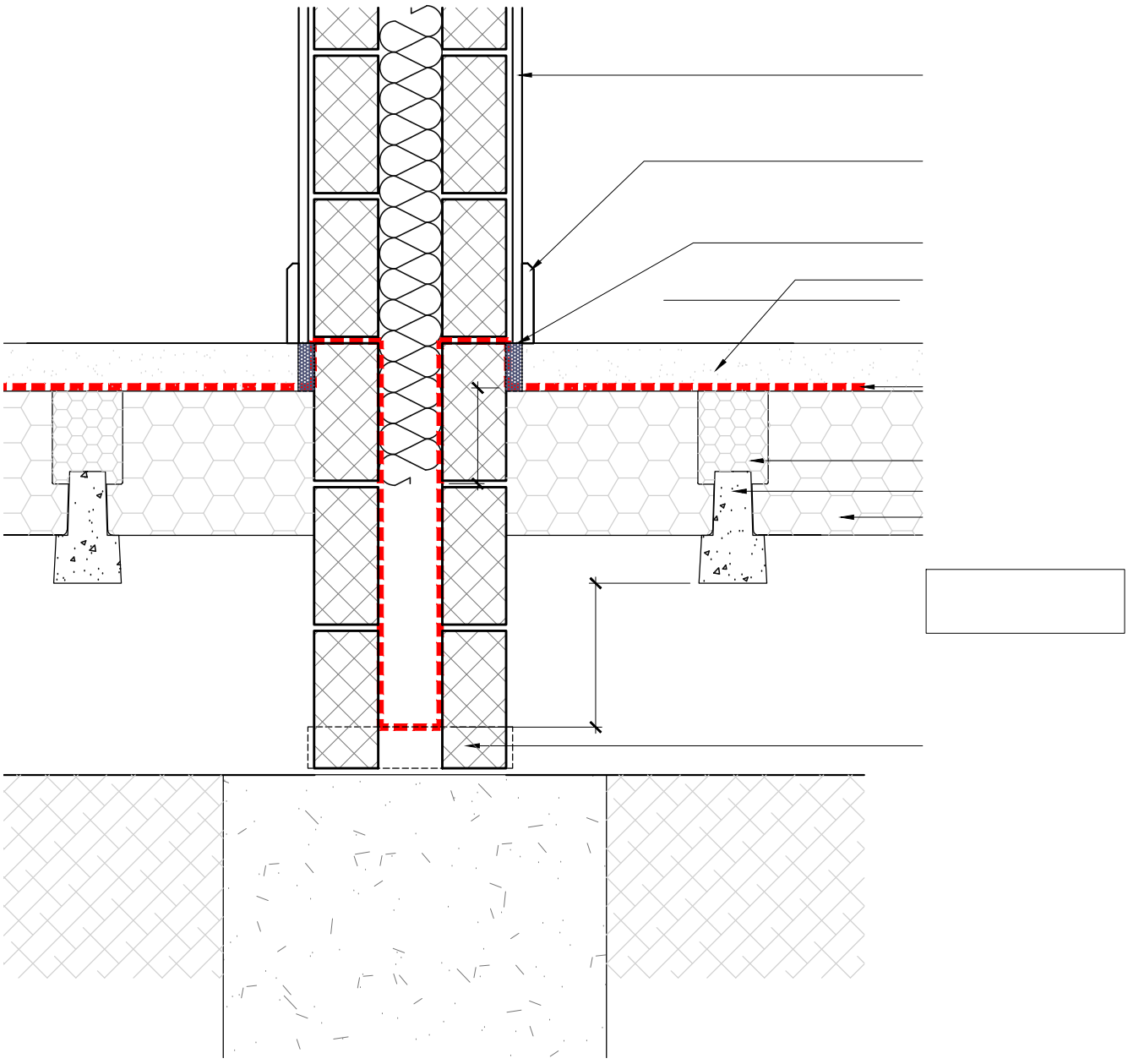
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

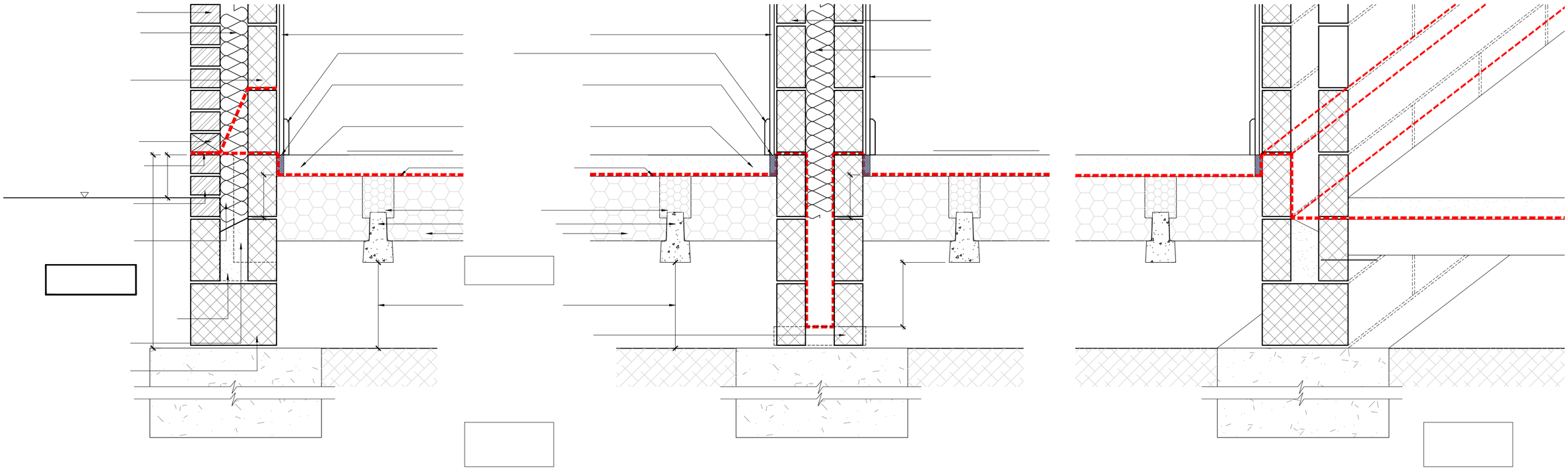
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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	03.11.23 1200hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther



Gleeson Homes
Waters Edge,
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

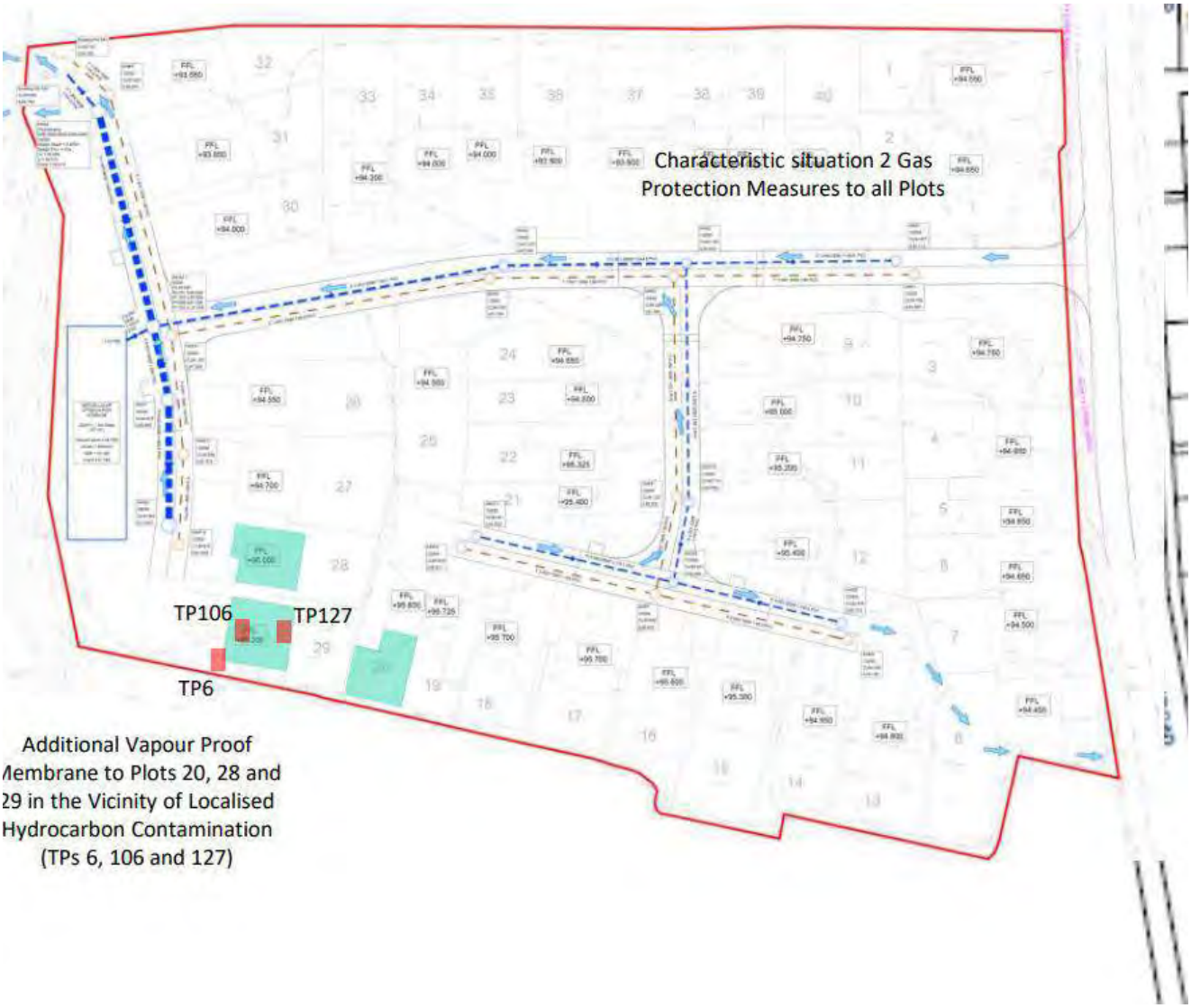
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Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)


VISQUEEN
BUILDING PRODUCTS




VISQUEEN

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

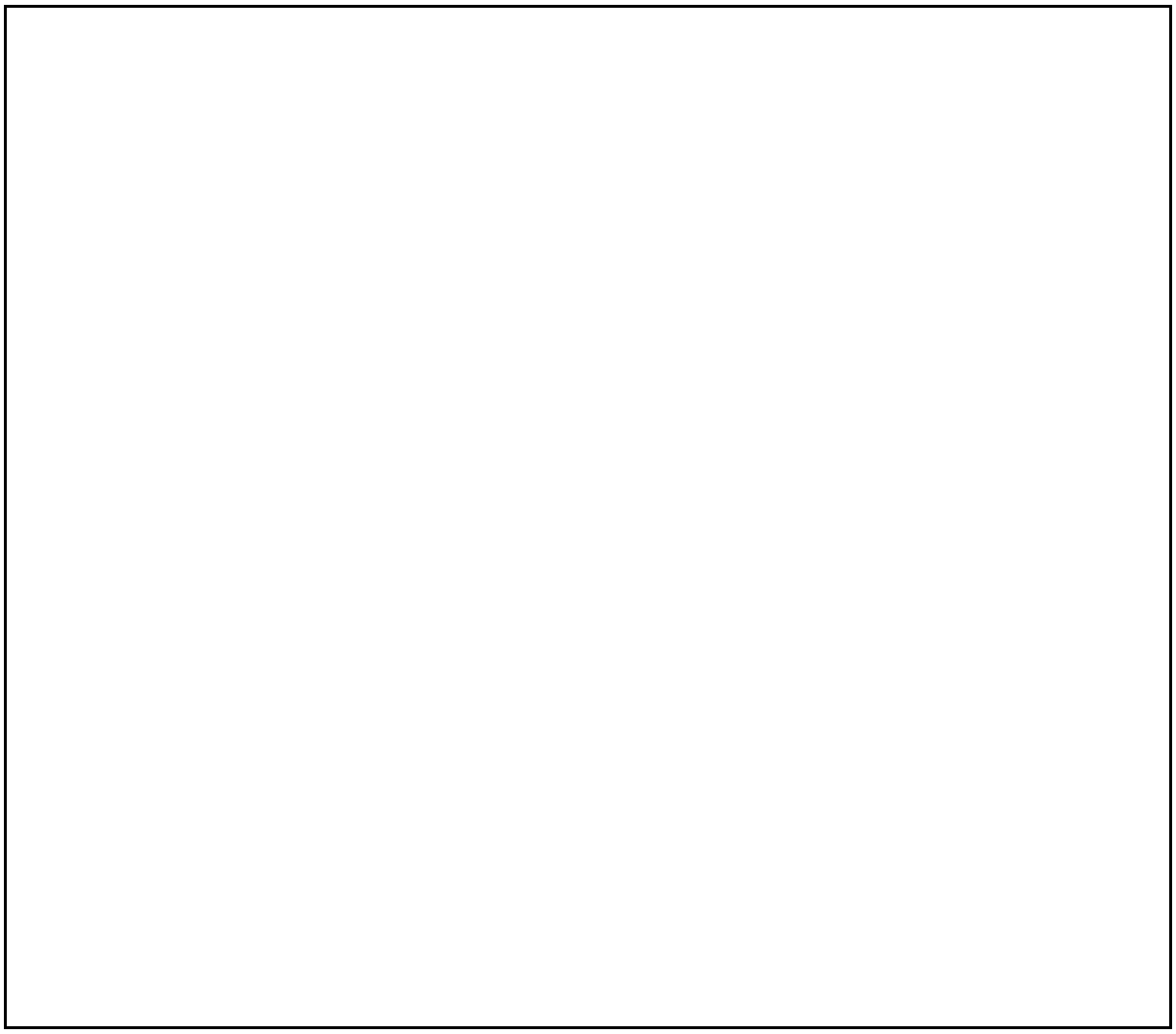
Remedial actions to be taken? Re-visit to be arranged?

If you have any questions regarding the above, please do not hesitate to contact me.

Yours sincerely

Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA-QT, SGPV
For and on behalf of GeoEnginSeer Ltd.

Commorragh, 1 Harrison Street, Cornholme, Todmorden, OL14 8LF : 07817108921
geoenginseer@gmail.com



GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
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Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

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DESIGN ASSOCIATES LTD

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Full Design Liability for Structural Waterproofing and Gas Protection

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Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
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Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

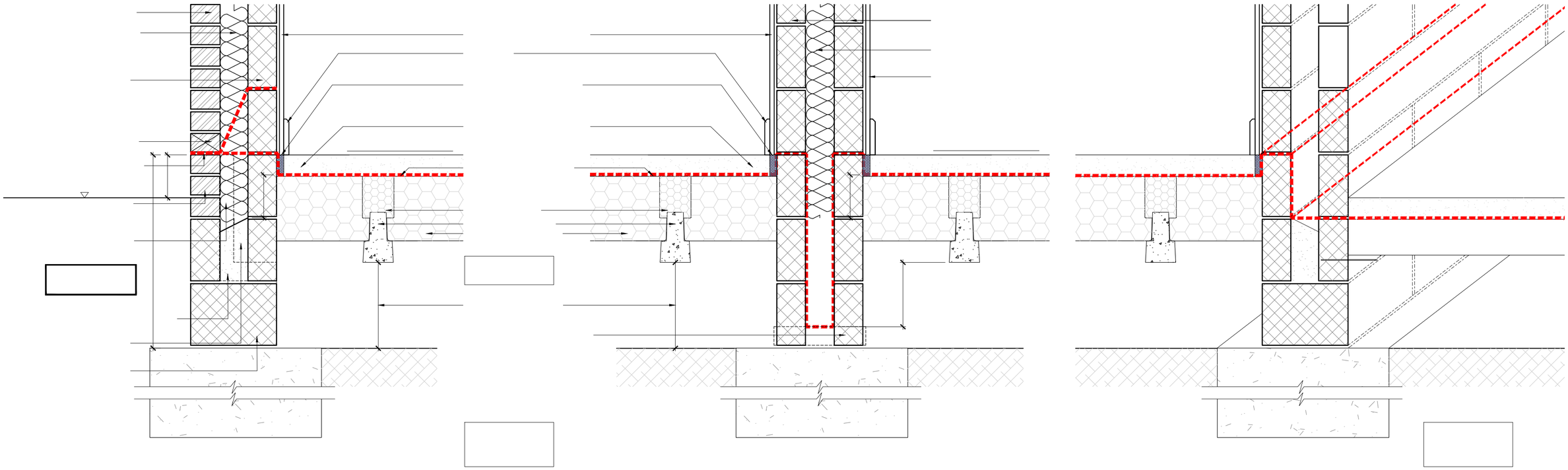
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

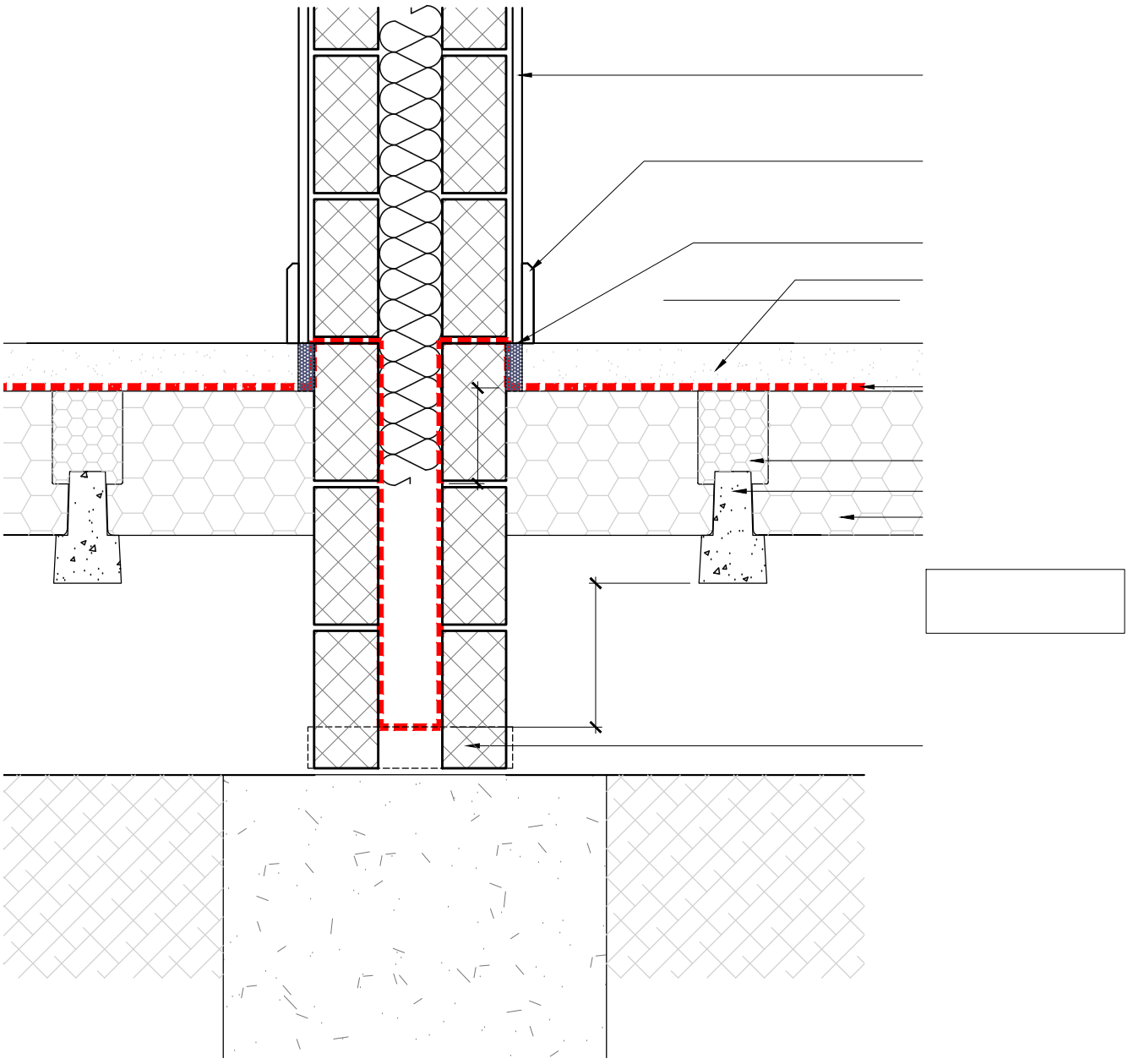
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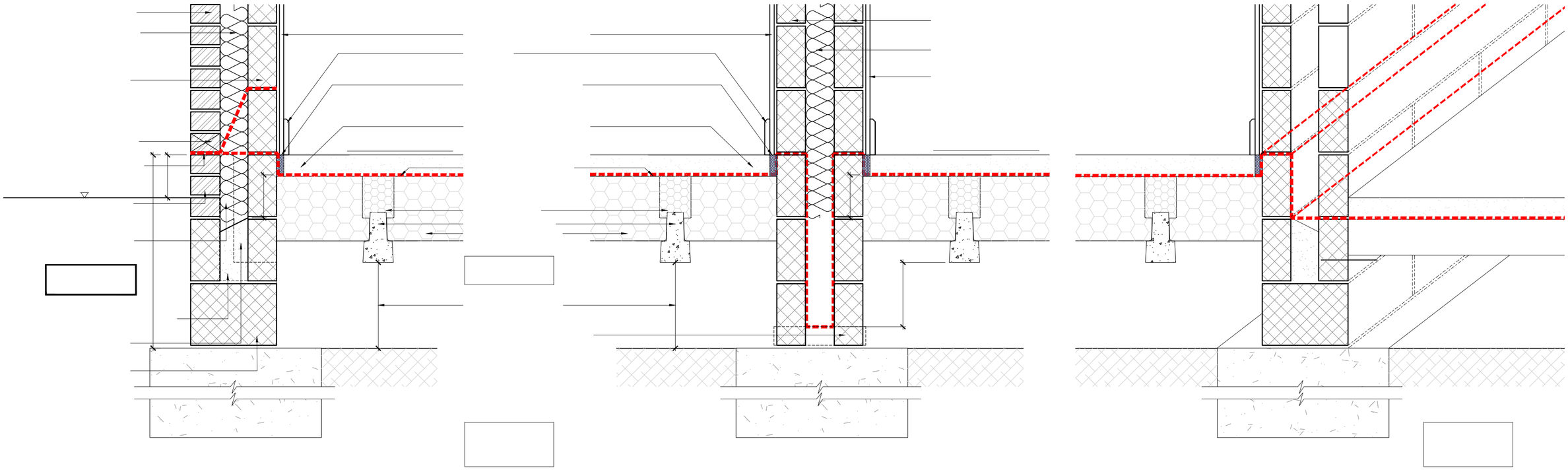
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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date / Time:	11.06.24 0830hrs

Signature		*Signature*
Name: Paul Carter – Jones		*Name:*

Waters Edge, High Road
Cumbria CA28 9QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

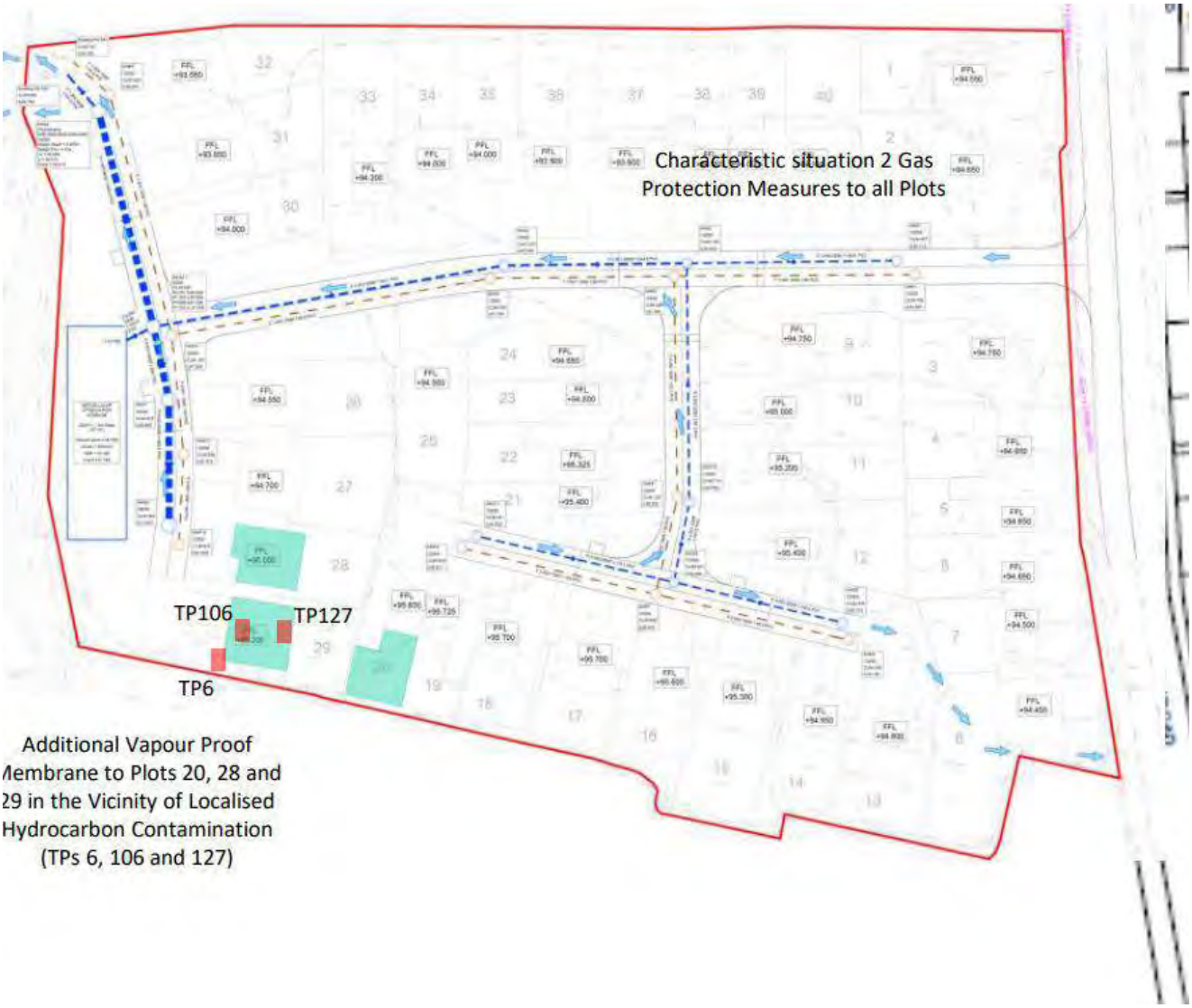
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How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)


SOLD
Plot number
13
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Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV
For and on behalf of geoenginseer.
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SOLD
15











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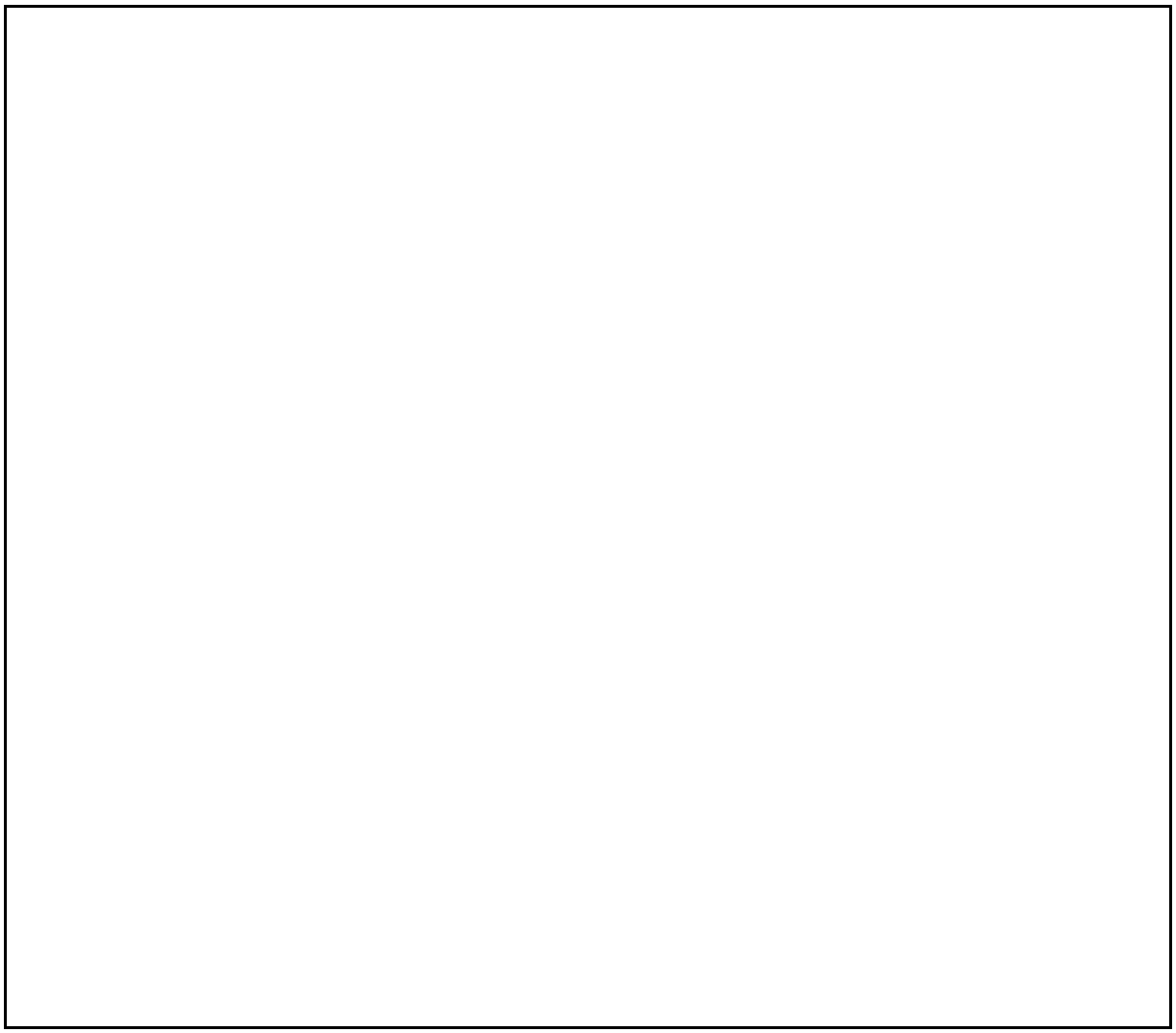
Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Pass evidence supplied for Garages 15 and 16, a revisit once all are complete will be required.

Remedial actions to be taken? Re-visit to be arranged?





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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



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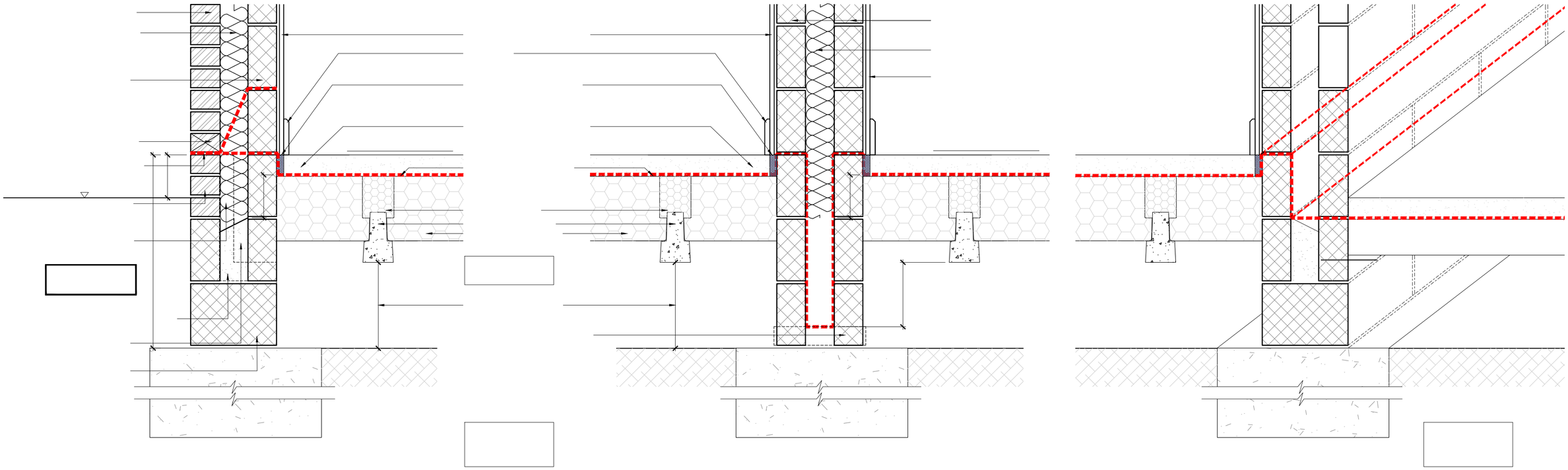
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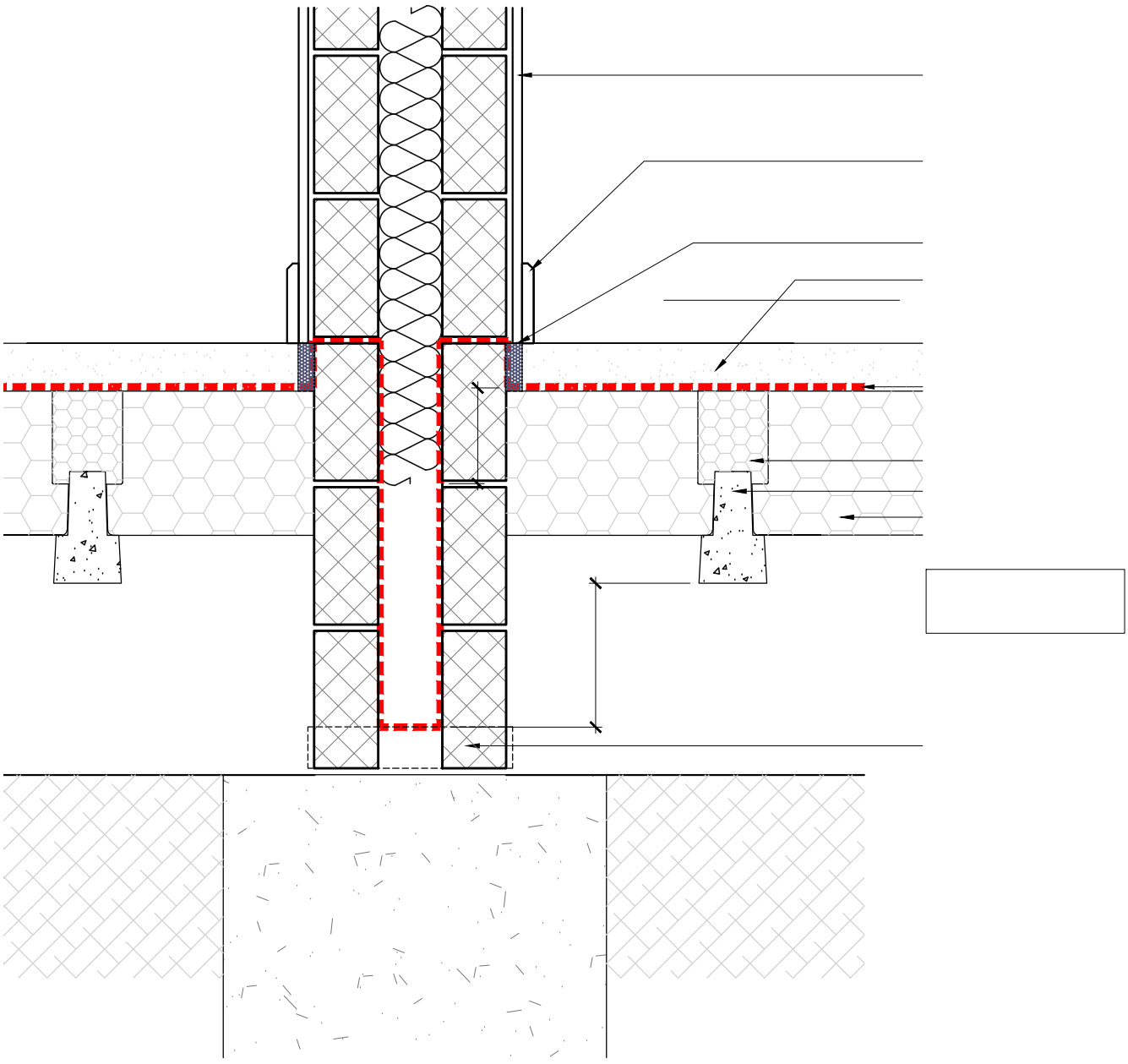
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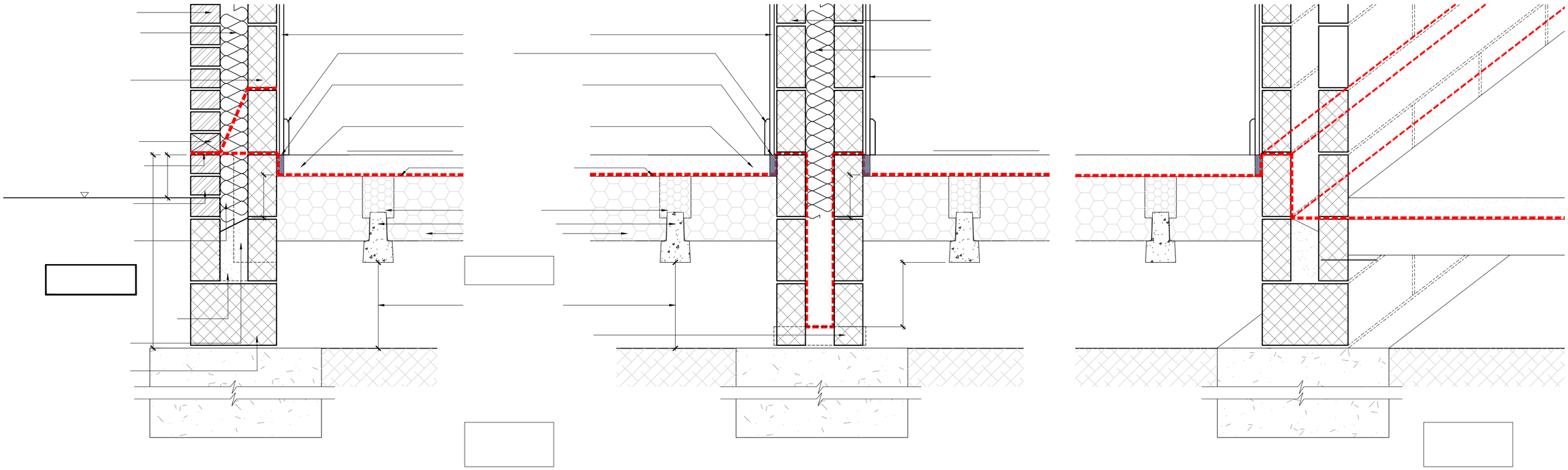
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FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date / Time:	19.06.24 0830hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name:

Waters Edge, High Road
Cumbria CA289QF

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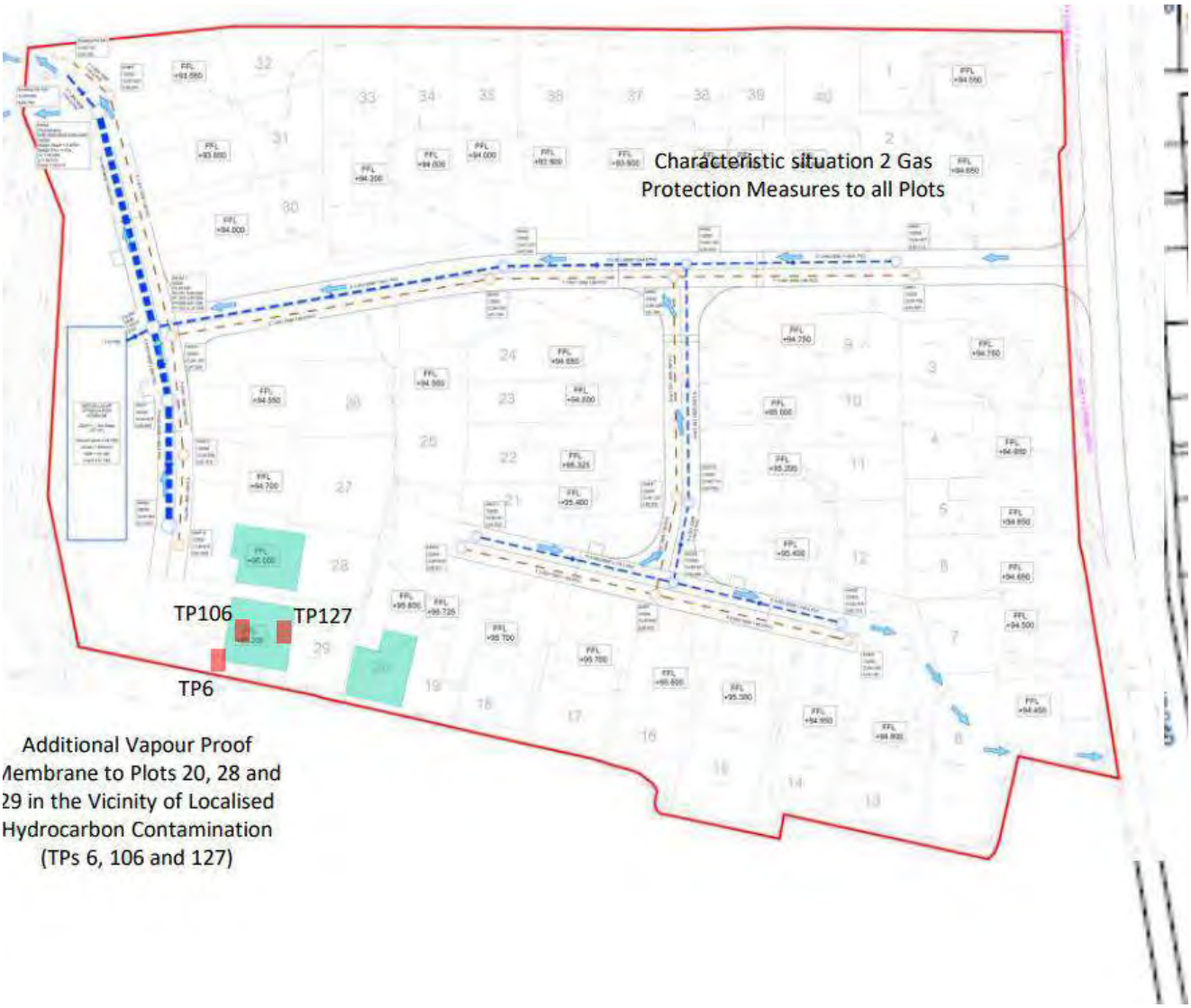
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For and on behalf of geoenginseer.
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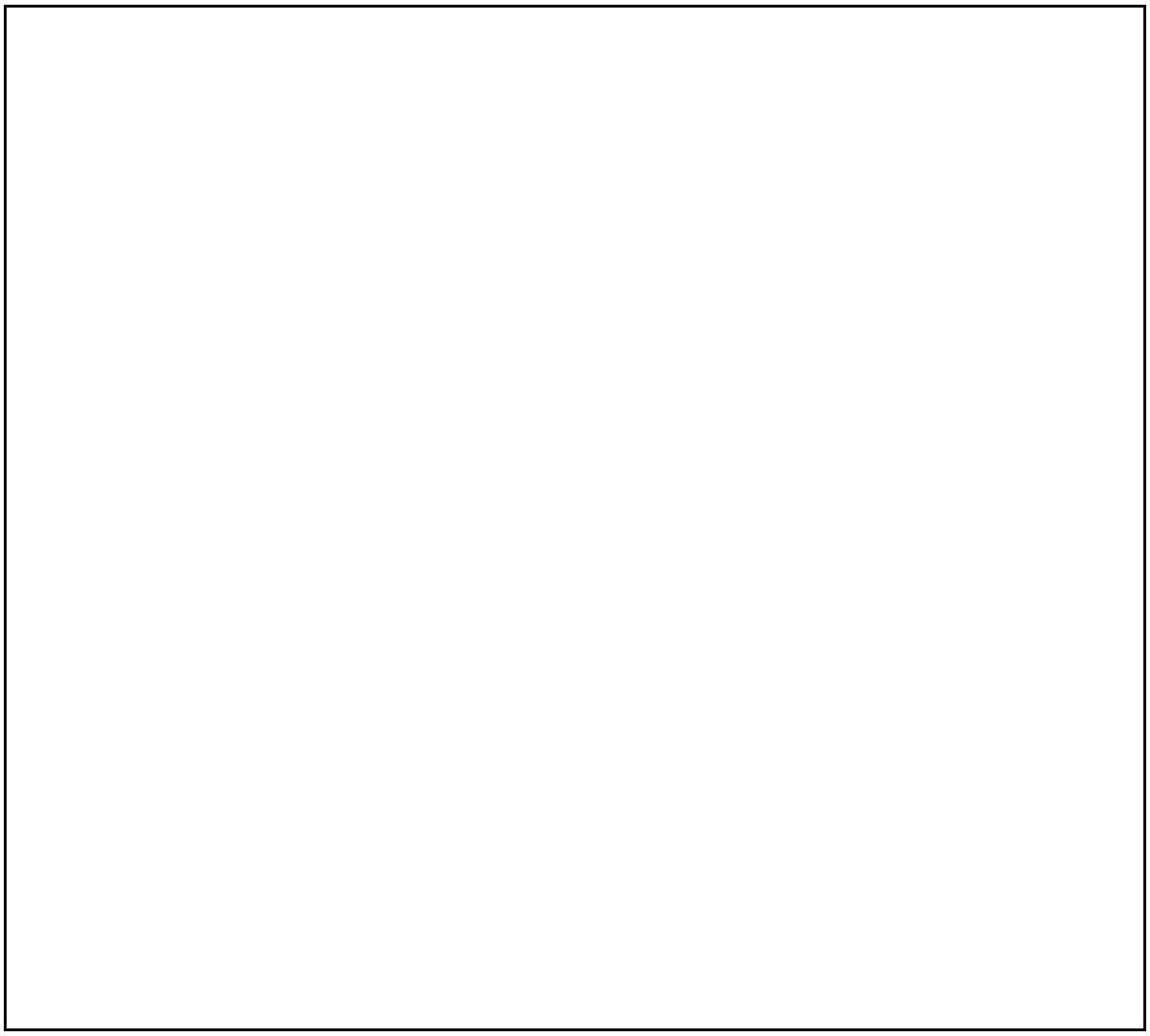
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Remedial actions to be taken? Re-visit to be arranged?





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Environmental Drilling Experts
&
Consultants

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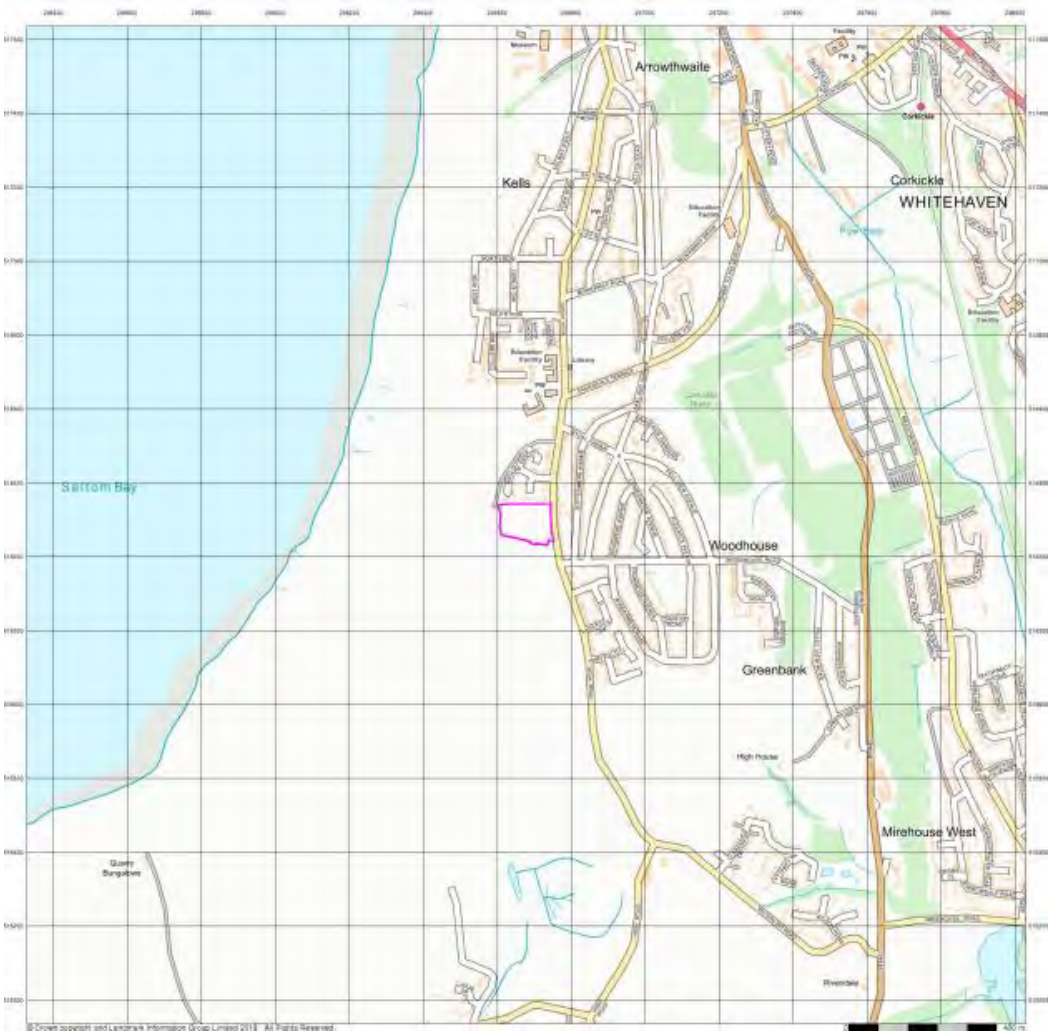
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Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
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DESIGN ASSOCIATES LTD

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

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- Conforms to the specification requirements of BS 8485:2015 + A1:2019
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Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

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System components

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- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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Complete Range, Complete Solution



Structural Waterproofing | Gas Protection | Damp Proof Membrane | Tapes | Damp Proof Course | Stormwater | Vapour Control

Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

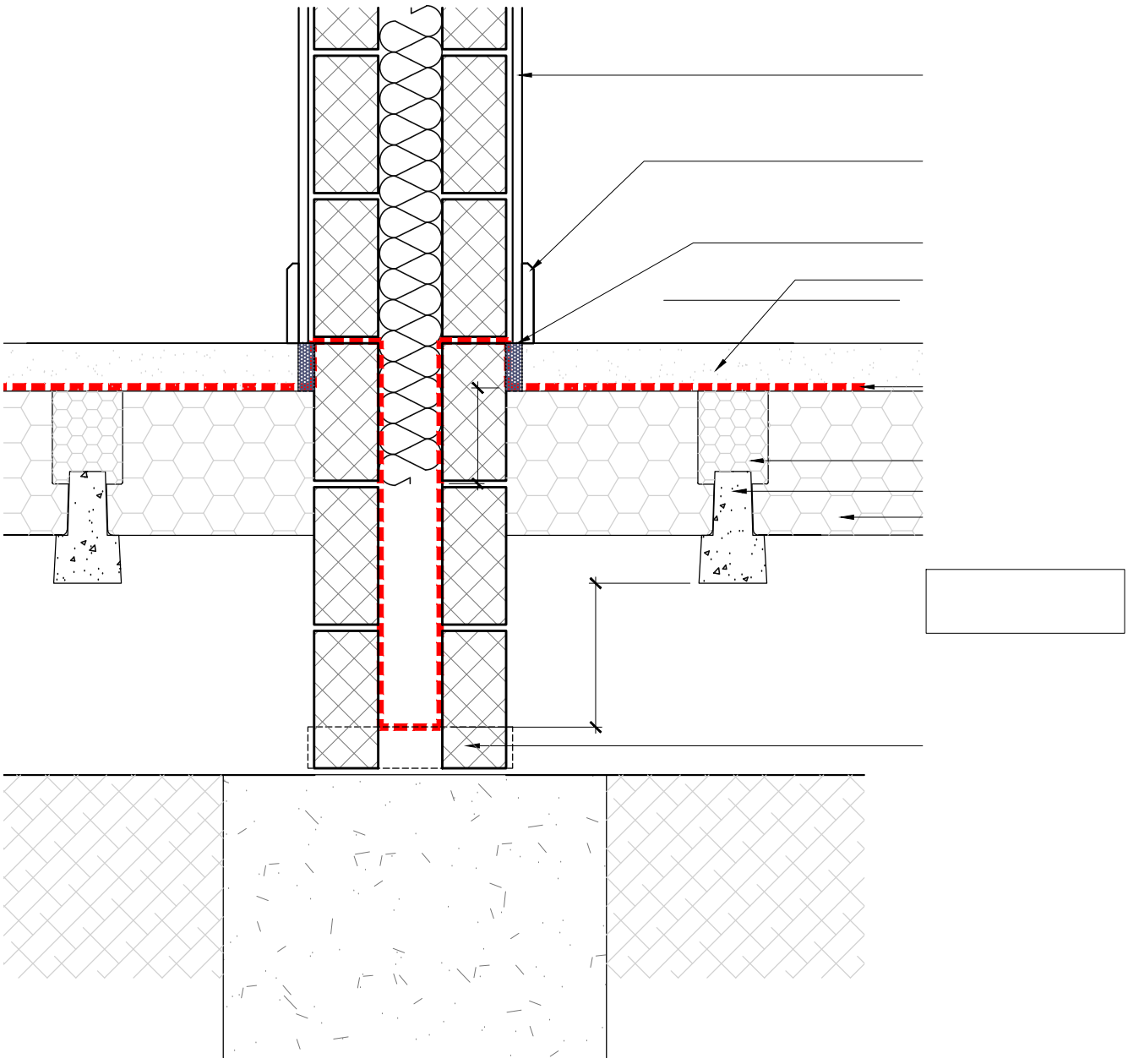
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

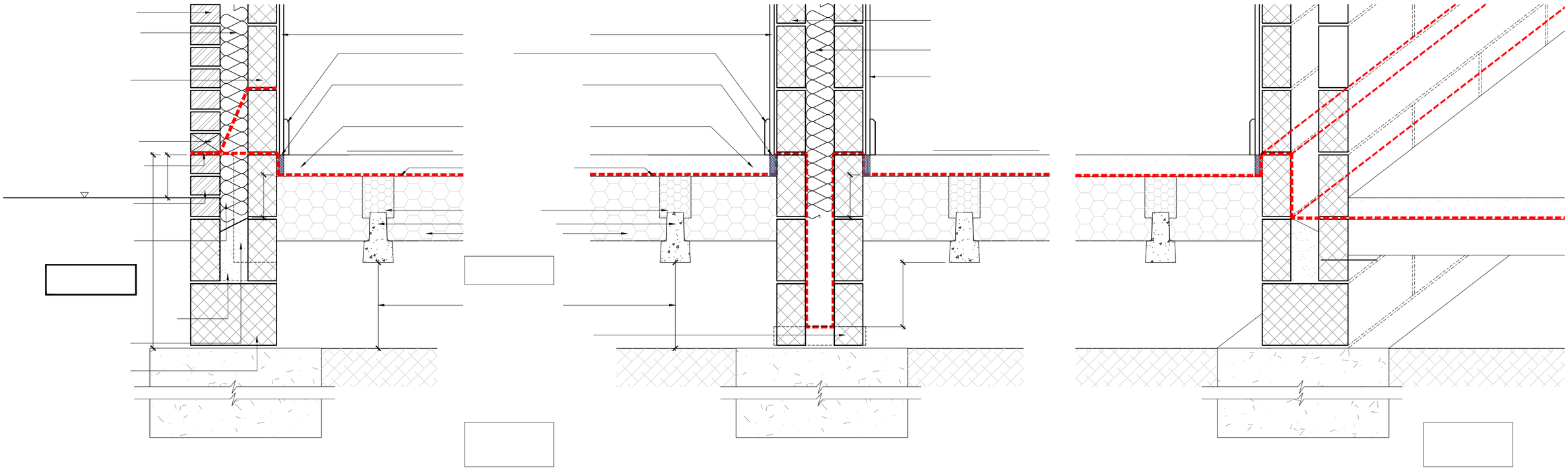
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Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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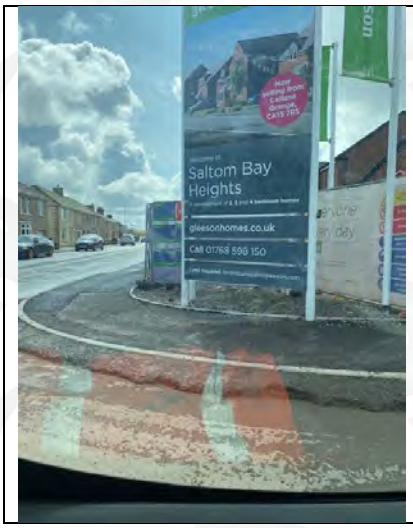


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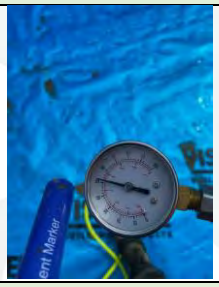
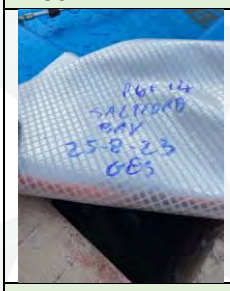
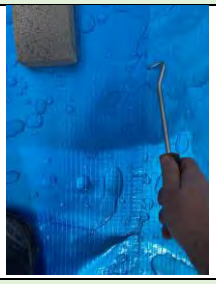
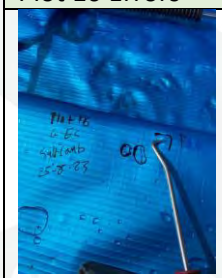
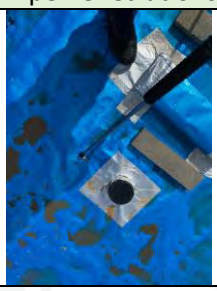
	

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Site Plan	Sites 13/14/16
	

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Plot 13	Air Lance Pressure	Corner Detail	Seam Check
			
Plot 14	Plot 14	Seam Check	Corner Detail
			
Air Lance Pressure	Pipe Penetrations	Stones Below Membrane	Sealed Pipe Penetration **
			
Plot 16 Errors	Plot 16	Air Lance Pressure	Seam Check
			
Pipe Penetrations	Corner Detail	Pipe Penetrations	Seam Error
			

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Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Find your local stockist



Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

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Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
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Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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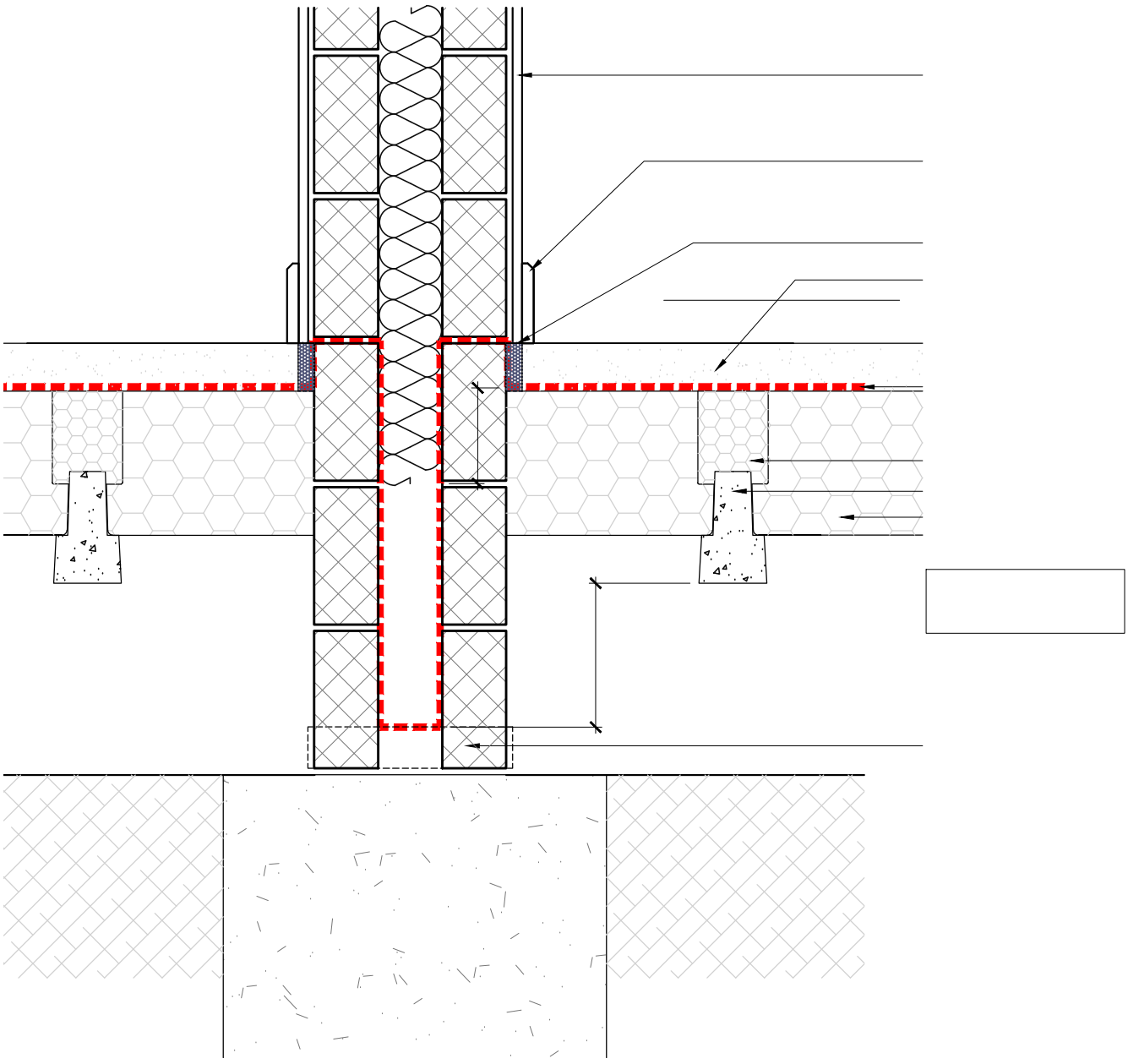
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Visqueen Training Academy

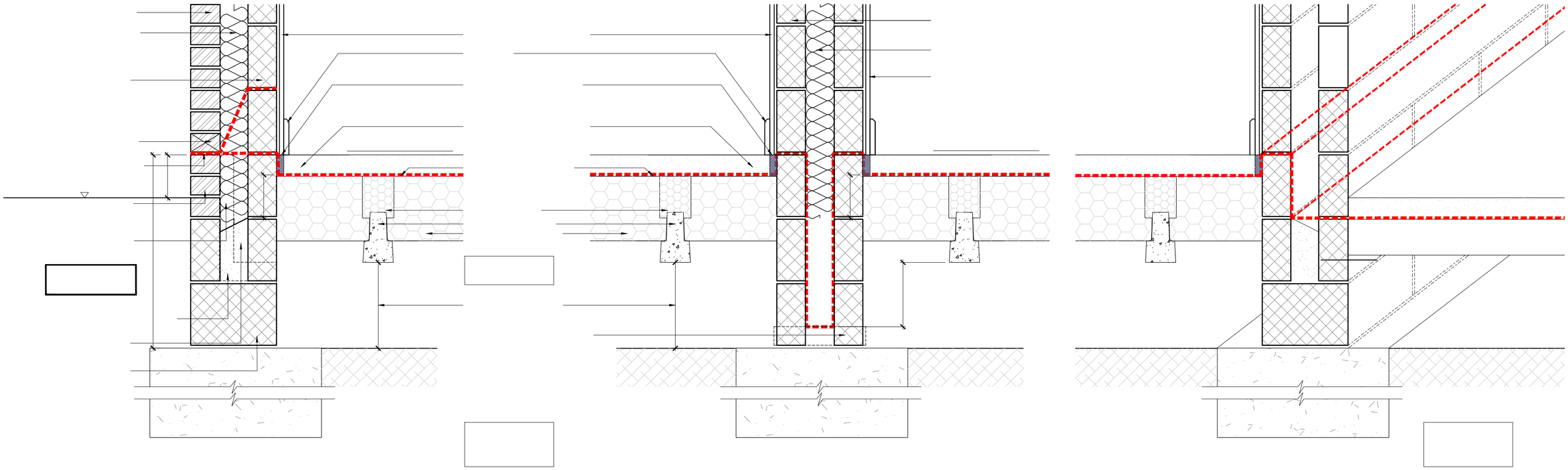
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Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	31.08.23 1330hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther

Gleesons Homes
Salton Bay
Waters Edge,
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

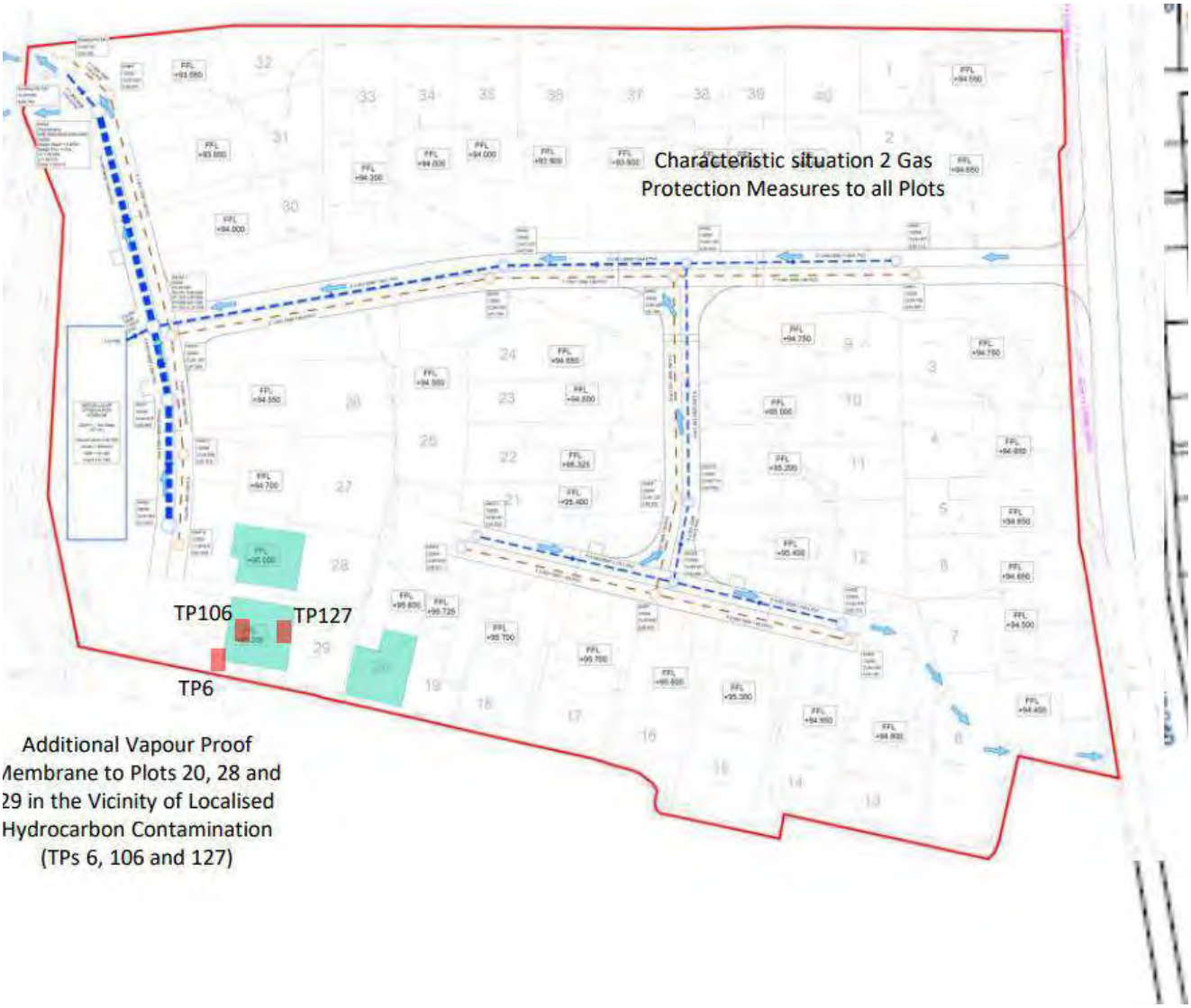
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)



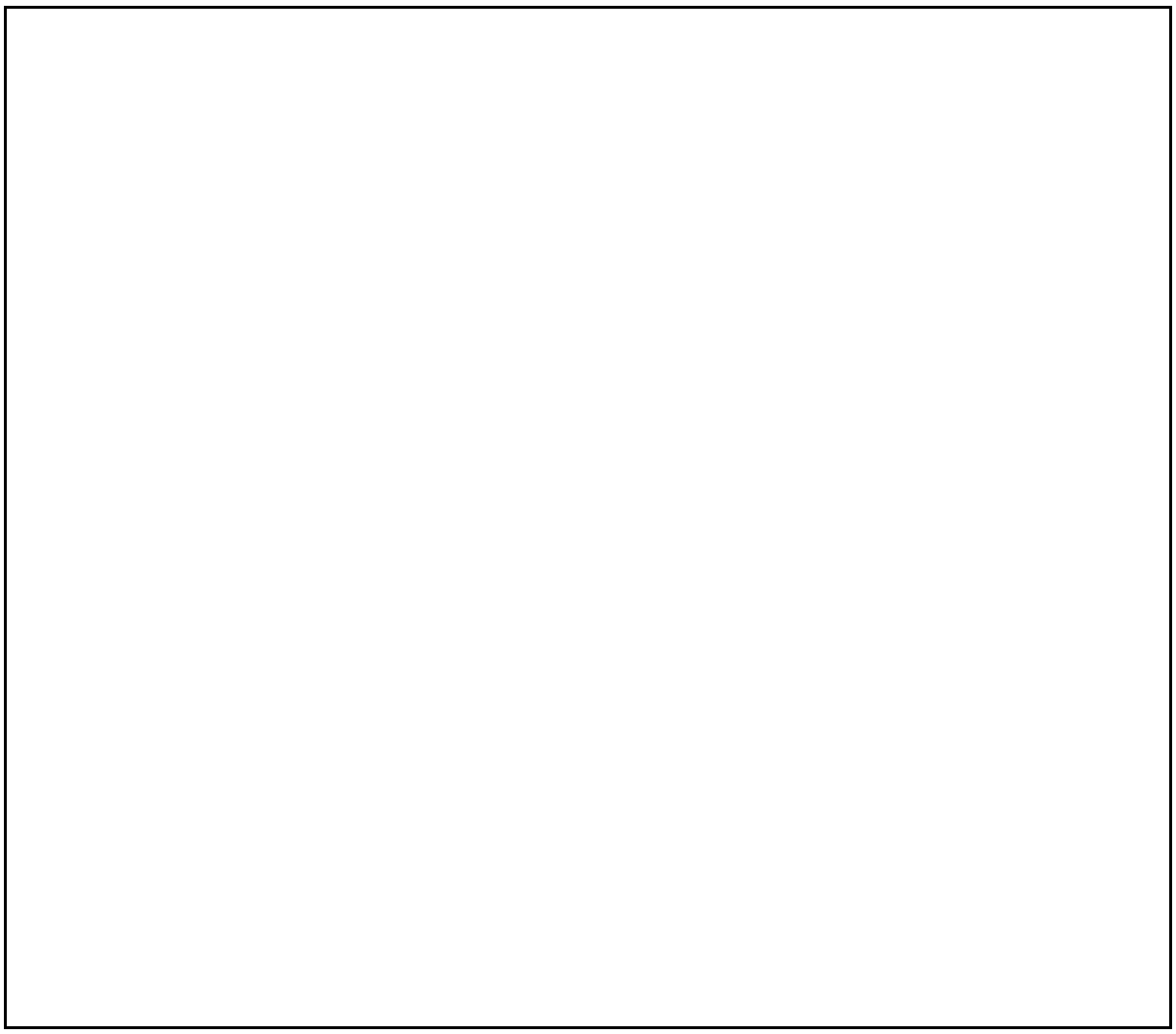


Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?





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Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

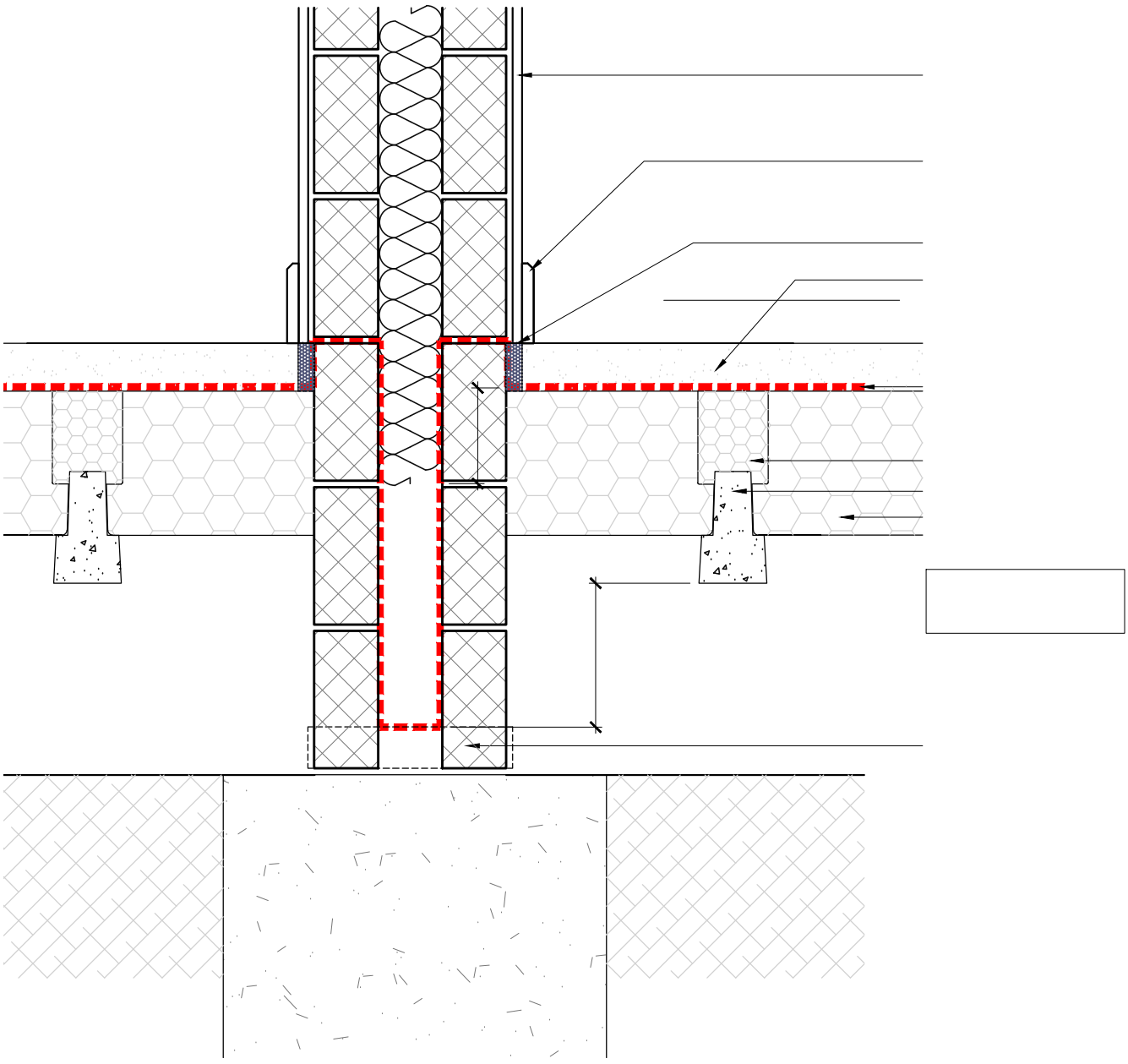
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

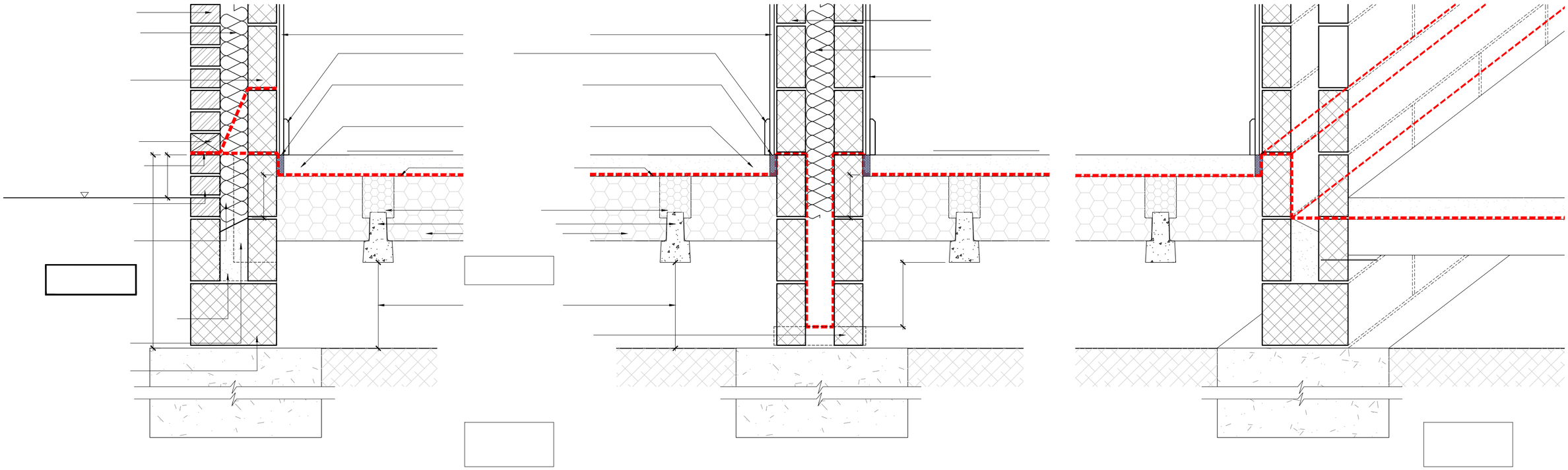
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	12.10.23 1430hrs

Signature



Name: Paul Carter – Jones

Signature



Name: Ben Crowther



Waters Edge, High Road
Cumbria CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

achine

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?


Sales Parking Area
Sales Area
HIGH ROAD
94.6m
0 10 20 30 40 50m
NOTES AND AMENDMENTS
REVISIONS
House Type Quantity
201 2
254 3
301 8
309 4
304 3
341 8
360 3
435 6
436 3
Total# 40
ASHWOOD
DESIGN ASSOCIATES LTD
Planning
Gleeson Homes
Waters Edge
Site Layout
1839 001 d

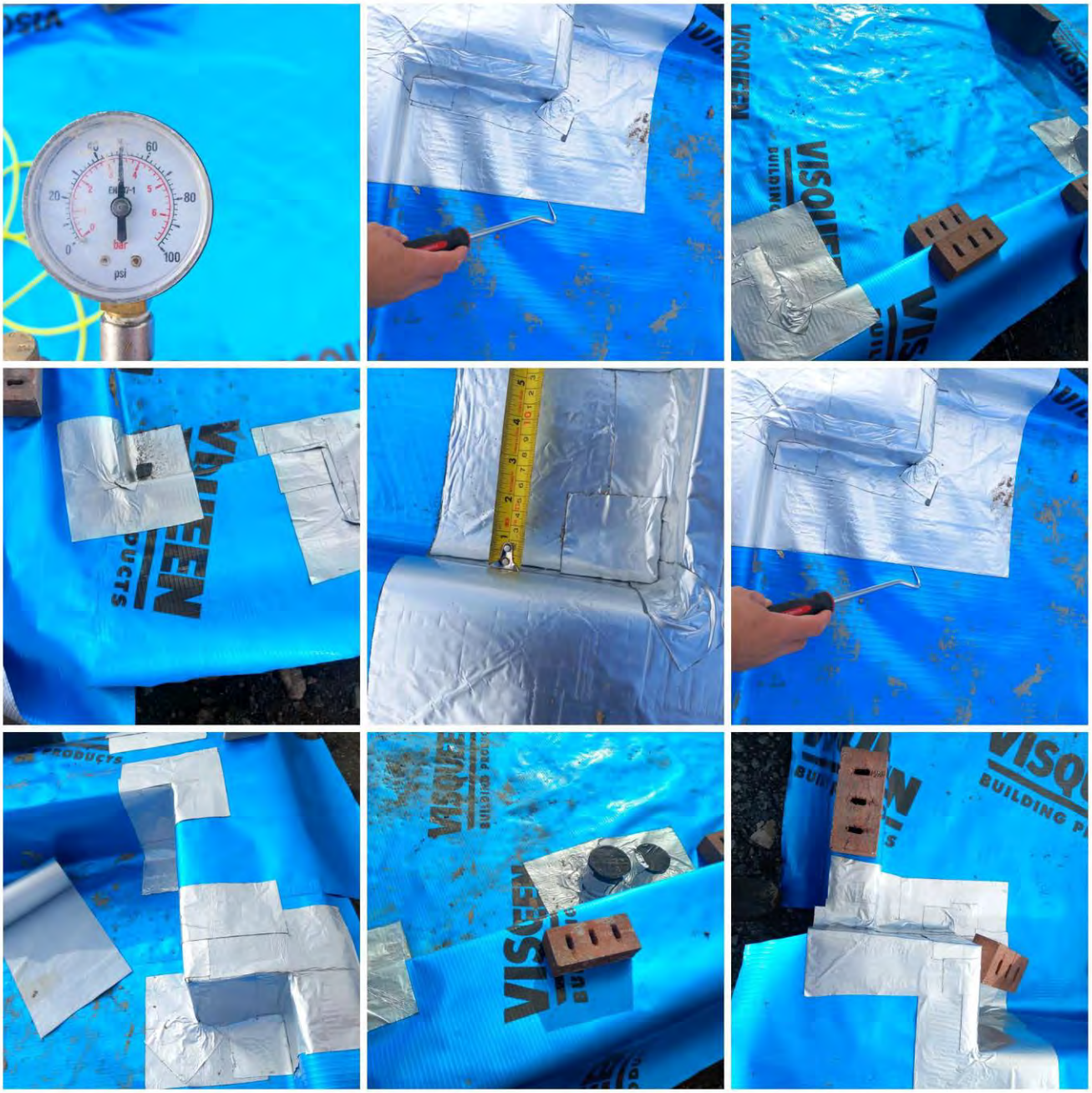

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BUILDING







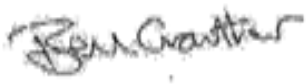

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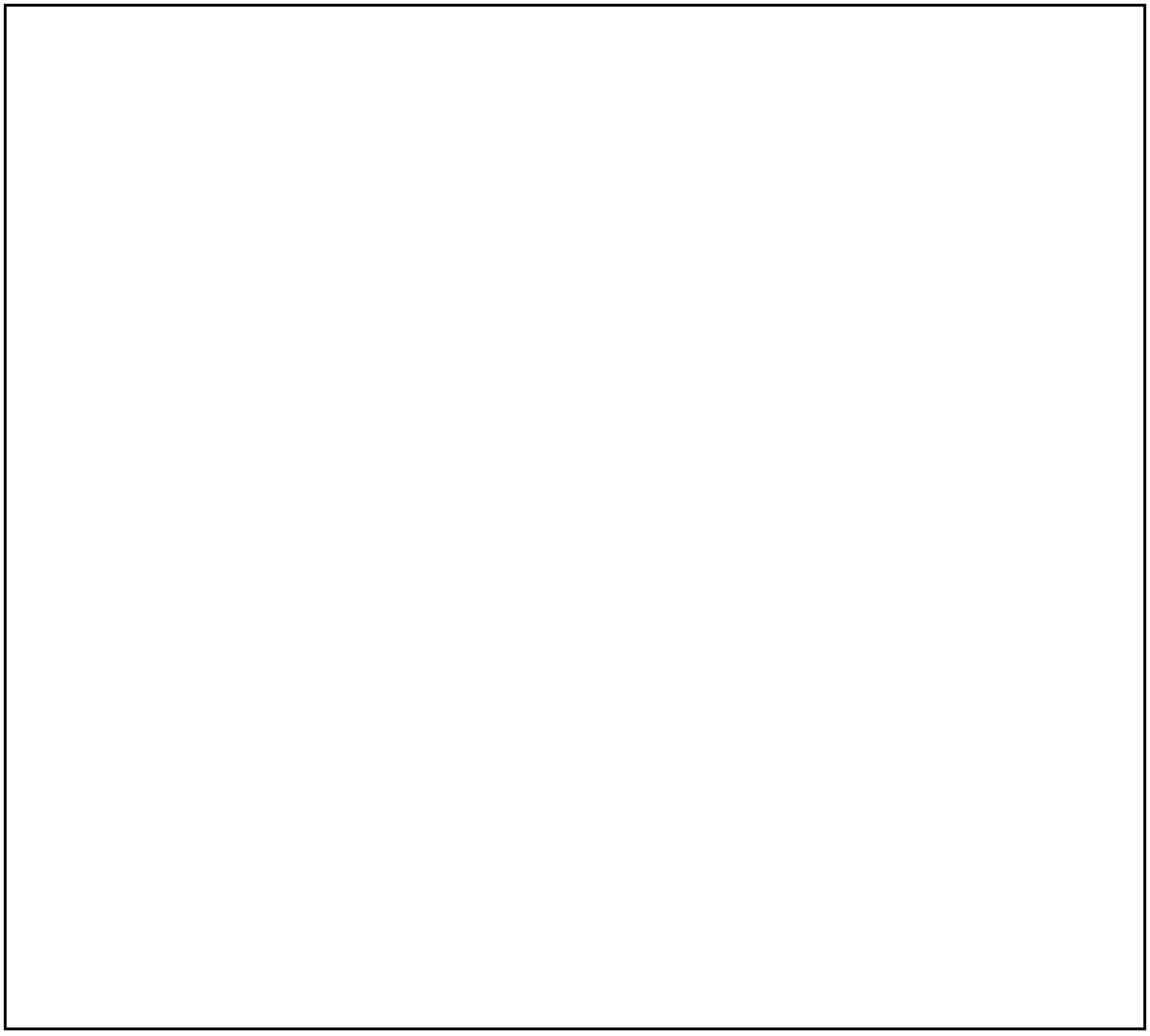

bar
psi
VISQUEEN
BUILDING PRODUCTS

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?





GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Full Design Liability for Structural Waterproofing and Gas Protection

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

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Date Published: 21/07/2023

Visqueen Ultimate HC BLOK

Features and benefits

- Agrement certified - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type A and Type B membrane locations
- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Ultimate HC Blok is a 0.5mm thick, chemically resistant co-extruded volatile organic compound barrier and gas barrier. It is coloured gold on the upper surface and white on the reverse. The product is supplied in single wound rolls (not folded), 2.44m x 41m.

Approvals and standards

- Third party accreditation (BDA certificate BAF-18-051-P-A-UK)
- Complies with NHBC Foundation's NF94 guidance for use in Type A and Type B membrane locations
- Complies with CIRIA C748:2014
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2023
- CE Mark EN 13967:2012
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Ultimate HC Blok is suitable for use in all types of buildings to prevent the ingress of harmful levels of volatile organic compounds (VOCs), methane, carbon dioxide and radon. The barrier can be positioned above or below a concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier also acts as a damp proof membrane.

Radon, carbon dioxide, methane, and VOC protection – NHBC NF94 guidance:
Visqueen Ultimate HC Blok when installed with either taped or welded joints (welded only for VOC protection) complies with NHBC Foundation's NF94 publication, Hazardous ground gas - an essential guide for housebuilders, in Type A membrane locations in precast suspended segmental subfloors and reinforced cast in situ concrete floor slabs (ground bearing, suspended or raft). Visqueen Ultimate HC Blok also complies with this guidance when installed with welded joints in Type B membrane locations in reinforced cast in situ concrete floor slabs (ground bearing, suspended or raft). For site or zone characteristic gas situations of CS4 and above, contact Visqueen Technical Services.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- Visqueen Ultimate Double Sided Jointing Tape, 100mm x 15m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Find your local stockist

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com

Technical support: +44 (0) 333 202 6800

Date Published: 21/07/2023

Visqueen Ultimate HC BLOK

Storage and handling

Visqueen Ultimate HC Blok should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Ultimate HC Blok should be installed on a smooth continuous surface free from irregularities such as voids or protrusions e.g. grouted beam and block floor, 50mm thick sand blinding, or smooth concrete blinding.

The membrane can be cut with a sharp retractable safety knife or robust scissors.

Installation

Visqueen Ultimate HC Blok should be loose laid on the substrate with the gold side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Ultimate Double Sided Jointing Tape and sealed with Visqueen GR Lap Tape. Alternatively lap joints can be heat welded to achieve an effective seal. The overlap in the barrier is typically 100mm and when hand welding, a 35mm weld is normally achieved. When hand welding, a roller must be used.

Airtight seals should be formed around all service entry points. Visqueen Ultimate Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Ultimate Double Sided Jointing Tape and sealed with Visqueen GR Lap Tape. The upstand should be secured with the supplied jubilee clip. Alternatively VisqueenPro Detailing Strip can be used to seal service entry points. The upstand should be secured with a jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Ultimate Preformed Units are used e.g. corners. Alternatively VisqueenPro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Ultimate Double Sided Jointing Tape and sealed with Visqueen GR Lap Tape. Alternatively a patch can be formed using VisqueenPro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGUARD protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Ultimate HC Blok and all associated system components should not be installed below 5°C.

Additional information

When used in accordance with CIRIA C748:2014 or BS8485:2015 + A1:2019, a subfloor ventilation system or pressure relief maybe required
To assist build sequencing, Visqueen Ultimate Gas DPC is available for gas protection through the wall constructions.
For suspended beam and block floor detailing see HC-01
Visqueen Ultimate Preformed Top Hat Units should be used at service pipe penetrations see HC-51
For internal and external corners Visqueen Ultimate Preformed Corner Units are available see PFU-553
To seal around steel columns use VisqueenPro Detailing Strip see HC-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800.

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Visqueen Ultimate HC BLOK

Property	Test method	Units	Criteria	Result	
Colour				Gold/white	
Weight		kg		49	
Length	EN 1848-2	m	-0/+10%	41	
Width	EN 1848-2	m	-0/+10%	2.44	
Thickness	EN 1849-2	mm	+/-10%	0.5	
BS 8485 and C748 physical test results		Units	Criteria	Result	
Puncture	BS EN ISO 12236:2006	N	MDV	1640	
Impact resistance Method A hard surface	EN 12691	mm	MDV	200	
Impact resistance Method B soft surface	EN 12691	mm	MDV	1250	
Tensiles yield strength MD 1	ASTM D4885-01	kN/m	MDV	5.1	
Tensiles yield strength CD 1	ASTM D4885-01	kN/m	MDV	4.91	
Yield elongation MD 1	ASTM D4885-01	%	MDV	76	
Yield elongation CD 1	ASTM D4885-01	%	MDV	62	
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	60.2	
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	66.1	
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	48.7	
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	49.6	
1 - this is at yield and not break as the equipment used was not strong enough to break the membrane					
BS 8485 - Methane testing	Test method	Units	Criteria	Result	
Methane gas transmission rate (unjointed)	ISO 15105-1	ml/m^2/day/ atm	<40	1.3	
Methane gas transmission rate (welded joint)	ISO 15105-1	ml/m^2/day/ atm	<40	24	
Carbon dioxide gas transmission rate	ISO 15105-1	ml/m^2/day/ atm	<40	8.3	
C748:2014 - Permeation vapour tests - 100% concentration		Criteria	ml/m^2/d	mg/m^2/d	mg/m^2/ hr
Benzene	ISO 15105-2	MDV	0.08	70	2.92
Toluene	ISO 15105-2	MDV	0.09	78.5	3.27
Ethyl benzene	ISO 15105-2	MDV	0.11	93.8	3.91
m,p xylene	ISO 15105-2	MDV	0.01	6.7	0.28
Hexane	ISO 15105-2	MDV	gas	2.6	0.11
Vinyl chloride	ISO 15105-2	MDV	0	6.4	0.27
Tetrachloroethene (PCE)	ISO 15105-2	MDV	0	3.2	0.13
Trichloroethene (TCE)	ISO 15105-2	MDV	solid	0.3	0.01
Naphthalene	ISO 15105-2	MDV	0.03	19.7	0.82
C748:2014 - Chemical immersion testing		weight %	Thickness %	Tensiles/ elongation	
Pass is achieved if the aged membrane is within 25% of the fresh sample					
Benzene	EN 14414	Pass	Pass	Pass	
Toluene	EN 14414	Pass	Pass	Pass	
Ethyl benzene	EN 14414	Pass	Pass	Pass	
(m,p, and o) xylene	EN 14414	Pass	Pass	Pass	
Hexane	EN 14414	Pass	Pass	Pass	

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Visqueen Ultimate HC BLOK

Property	Test method	Units	Criteria	Result	
Vinyl chloride	EN 14414	Pass	Pass	Pass	
Tetrachlororthene	EN 14414	Pass	Pass	Pass	
Trichloroethene	EN 14414	Pass	Pass	Pass	
Naphthalene	EN 14414	Pass	Pass	Pass	
CE Marking to EN13967 Type A					
Characteristic	Test method	Units	Criteria	Result	
Tensile strength - MD	EN 12311	N/mm^2	MDV	32.8	
Tensile strength - CD	EN 12311	N/mm^2	MDV	33.1	
Tensile elongation - MD	EN 12311	%	MDV	699	
Tensile elongation - CD	EN 12311	%	MDV	723	
Joint strength	EN 12317-2	N	MDV	265	
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass	
Resistance to impact	EN 12691	mm	>MLV	200	
Durability watertightness after heat ageing	EN 1296	-	Pass/Fail	Pass	
Durability watertightness against chemicals	EN 1847	-	Pass/Fail	Pass	
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	245	
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	270	
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	1034	
Water vapour transmission - permeability	EN 1931	$g/m^2/d$	MDV	0.13	
Radon permeability	Sp Method 3873	m^2/s	MDV	$<1.5 \times 10^{-12}$	

Health and safety information

Refer to the Visqueen Ultimate HC Blok safety datasheet (SDS).

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Visqueen Ultimate HC BLOK

About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

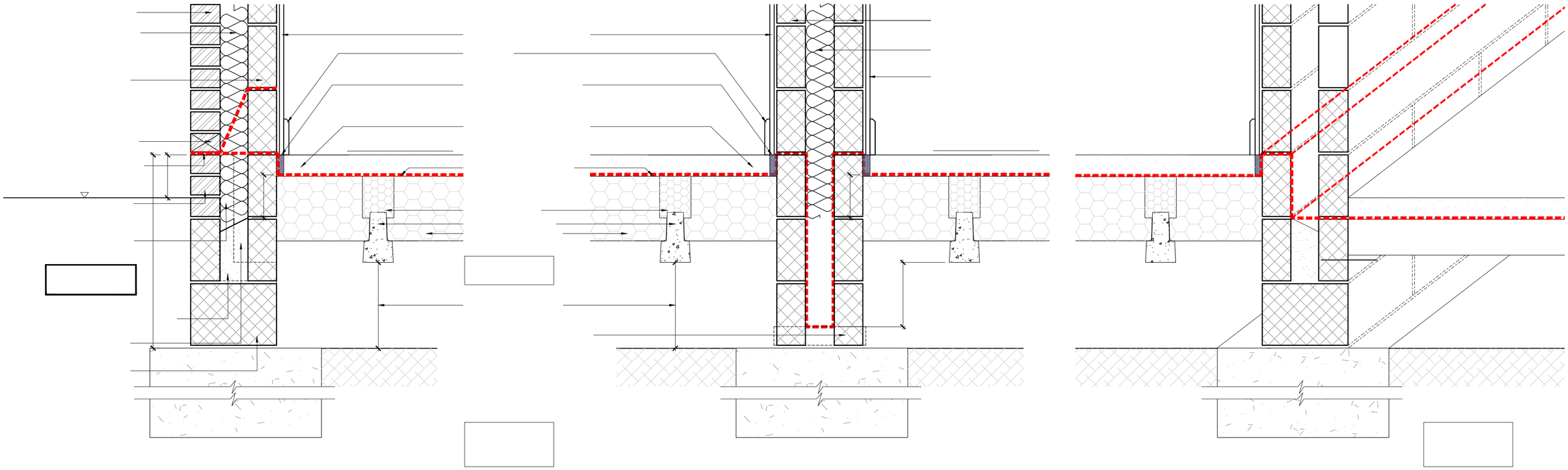
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

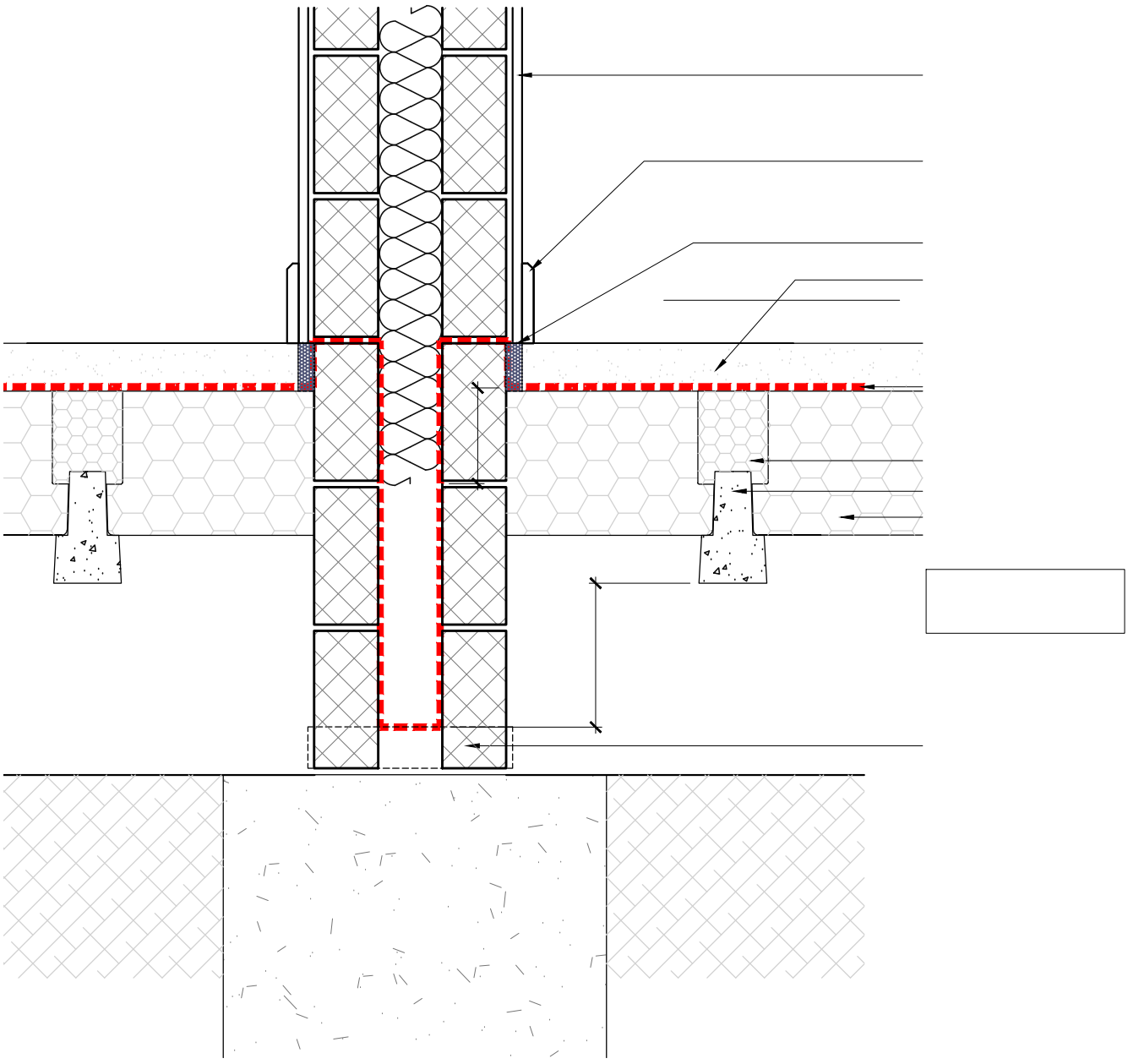
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

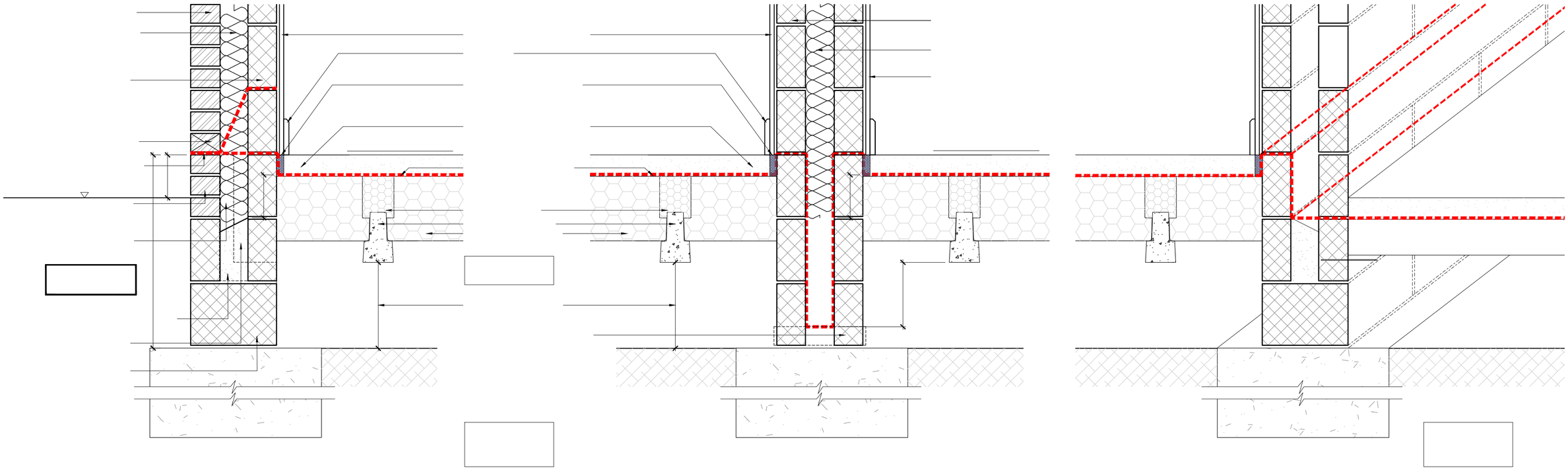
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gleeson



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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	13.12.23

Signature 

Name: Paul Carter – Jones

Signature 

Name: *Ben Crowther*

Gleesons Homes
Salton Bay Housing Development (Waters Edge)
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

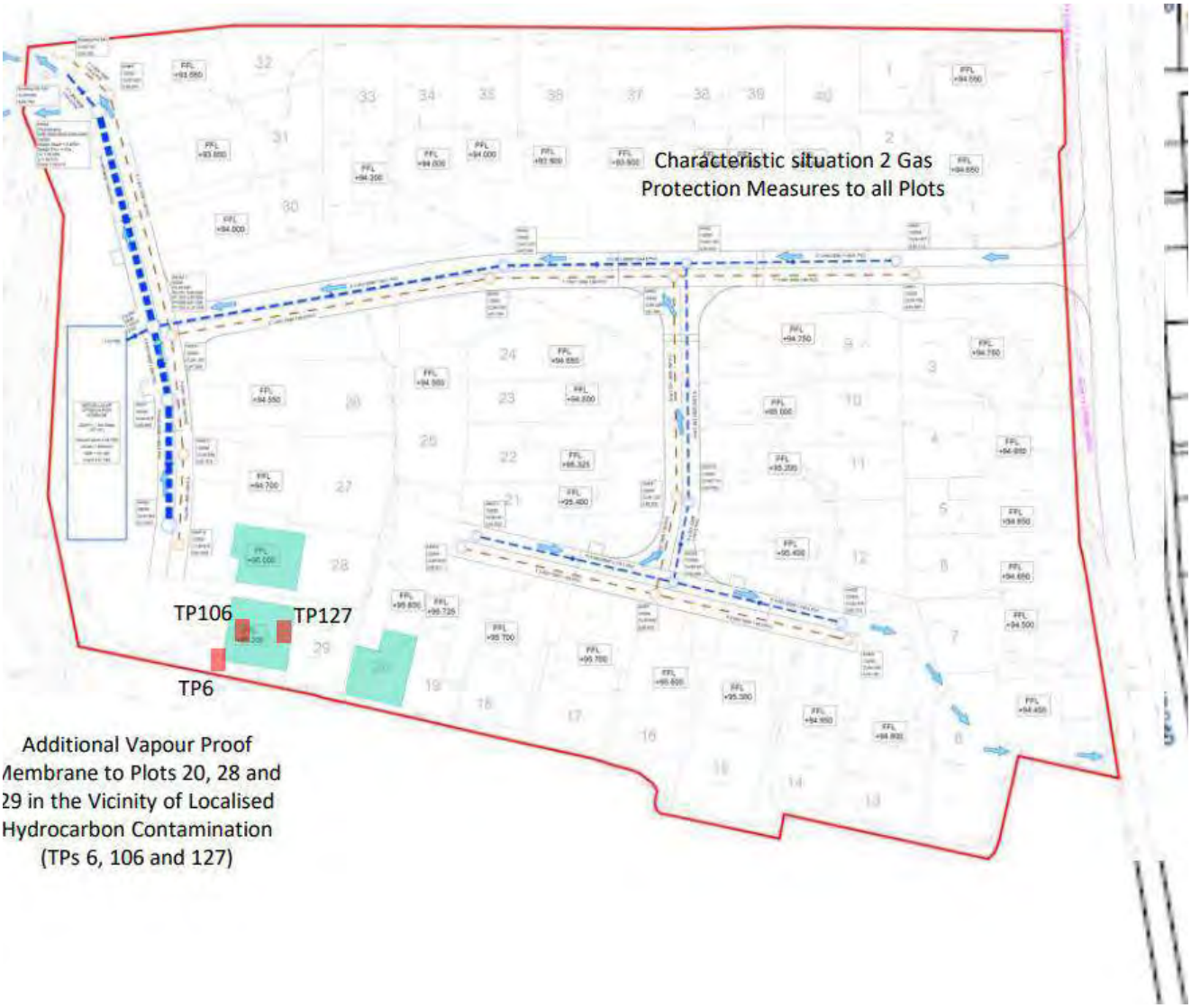
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

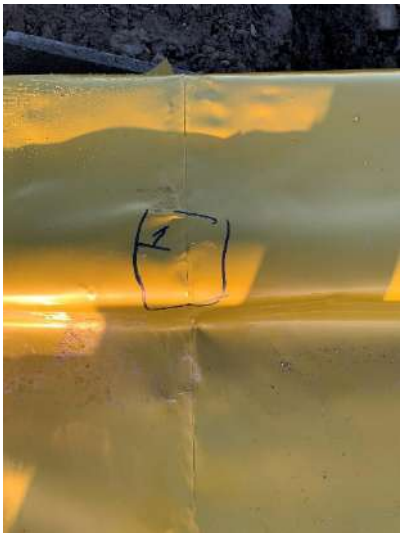
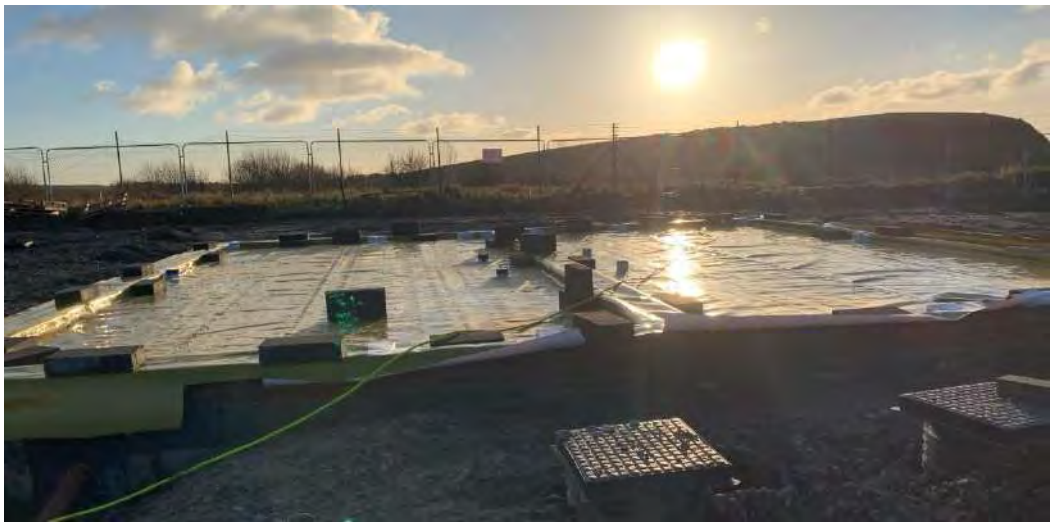



Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)







Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?

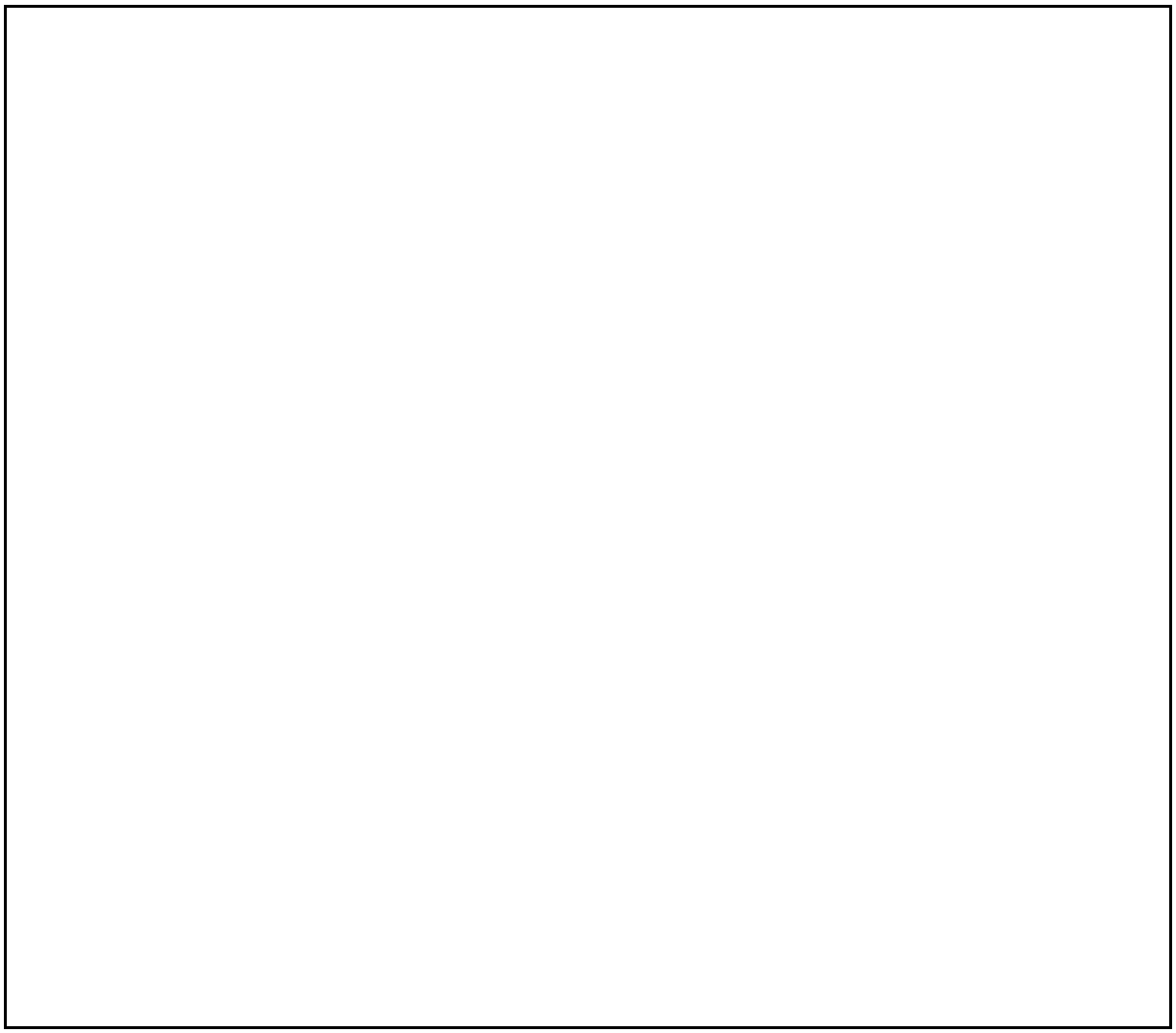
Visual inspection has been completed by specialist sub-contractor Paul Carter – Jones of GeoEnginSeer Ltd on behalf of Gleeson Homes with the inspection completed concurrently with integrity testing.

These buildings have **PASSED** inspection.

An additional inspection IS NOT required for these plots. However, proof of sealing the service conduit gap between services (water/gas/electric) outer face and the edge of the service conduit is requested.

Inspection by: H.B. Crowther

Signed: Ben Crowther: 14.12.23



GEO Environmental Engineering



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_____

_____ *B.Sc.(Hons)*

_____ *B.Sc. (Hons), FGS.*

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-
-
-



GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

-
-

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Find your local stockist



Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Date Published: 22/09/2021

Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

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Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

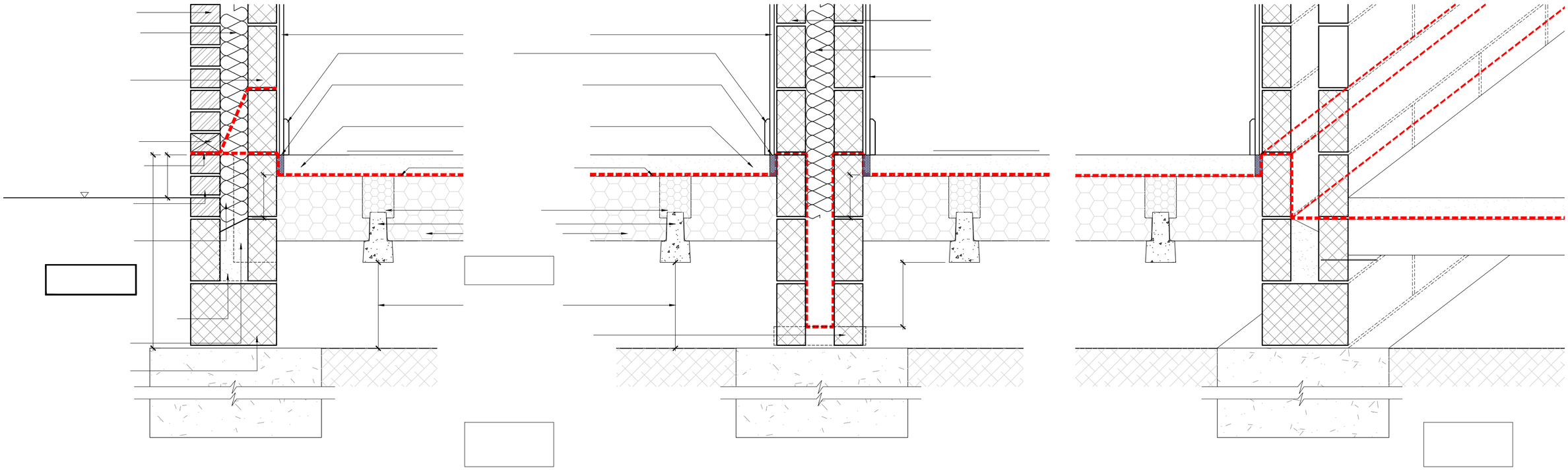
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Visqueen Training Academy

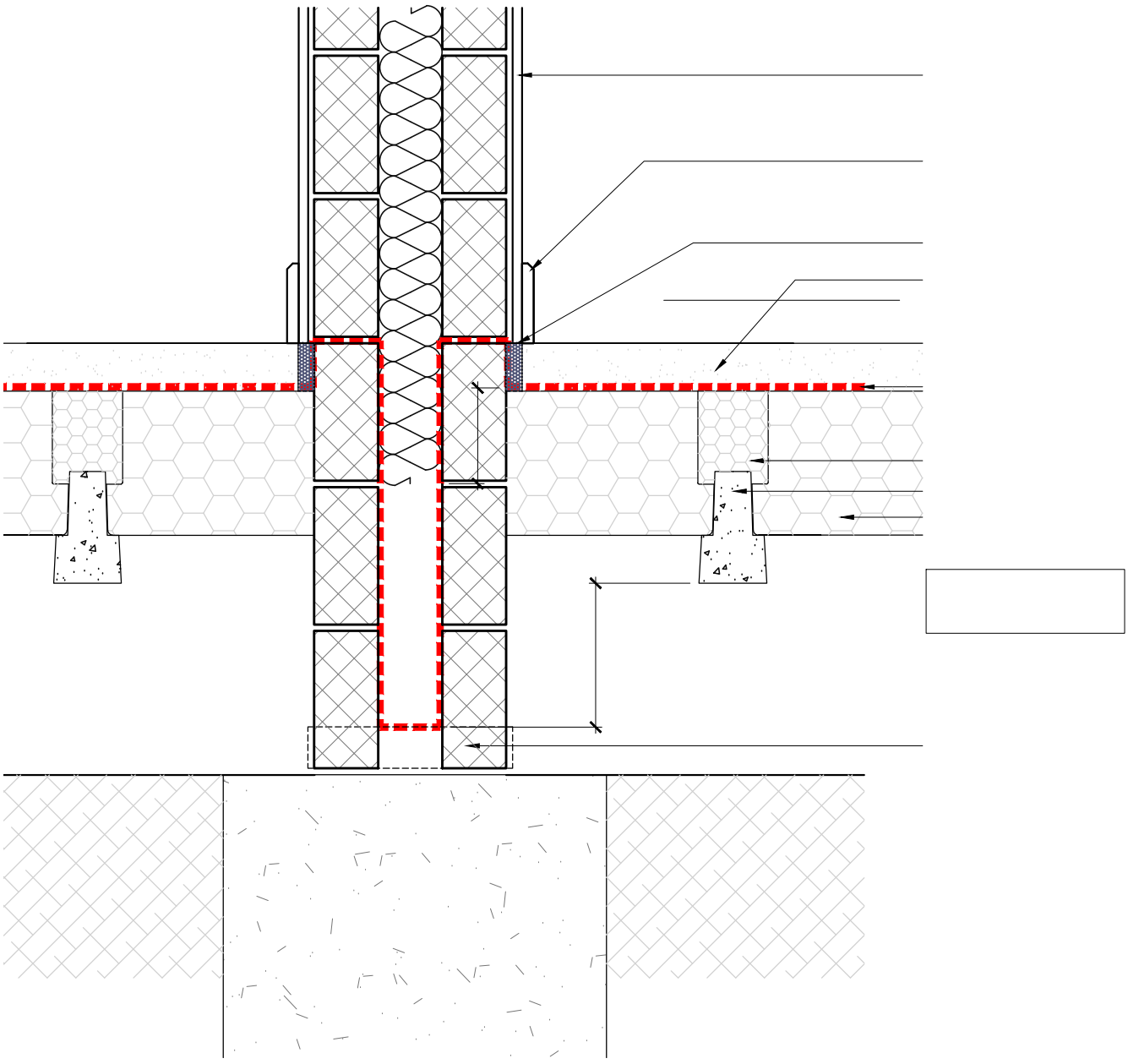
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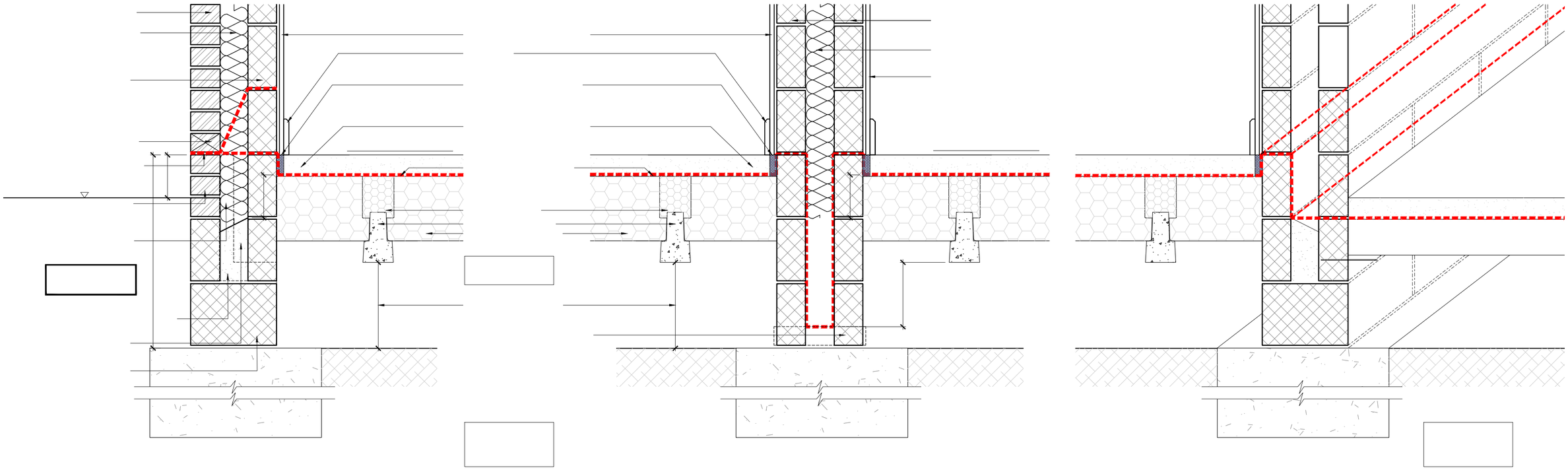
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gleeson



gleeson



gleeson



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	04.12.23 1400hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: *Ben Crowther*

Gleeson Homes
Salton Bay Housing Development (Waters Edge)
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

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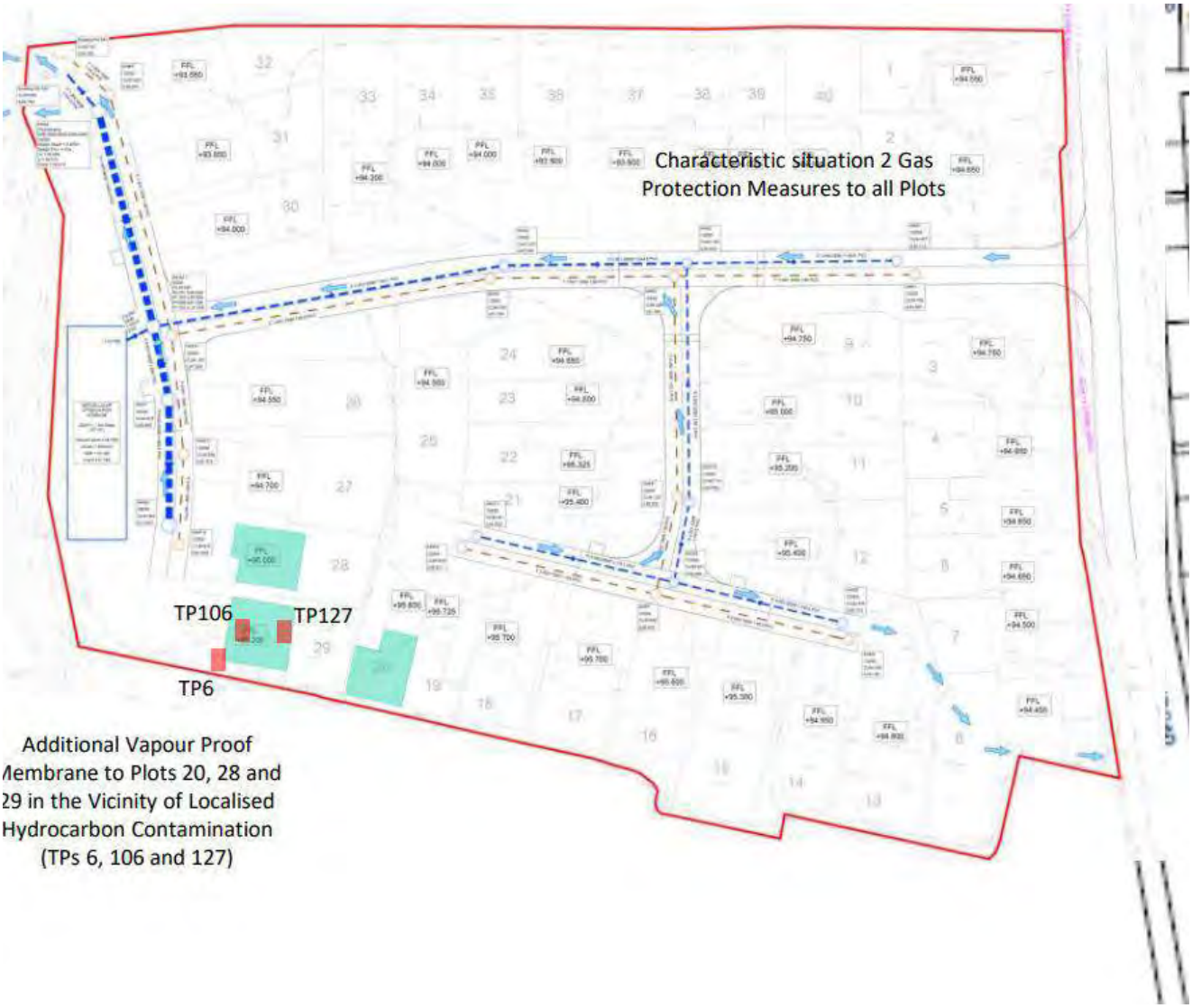
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Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?




Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)



Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV
For and on behalf of geoenginseer.
www.Geoenginseer.co.uk 07817108921


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Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

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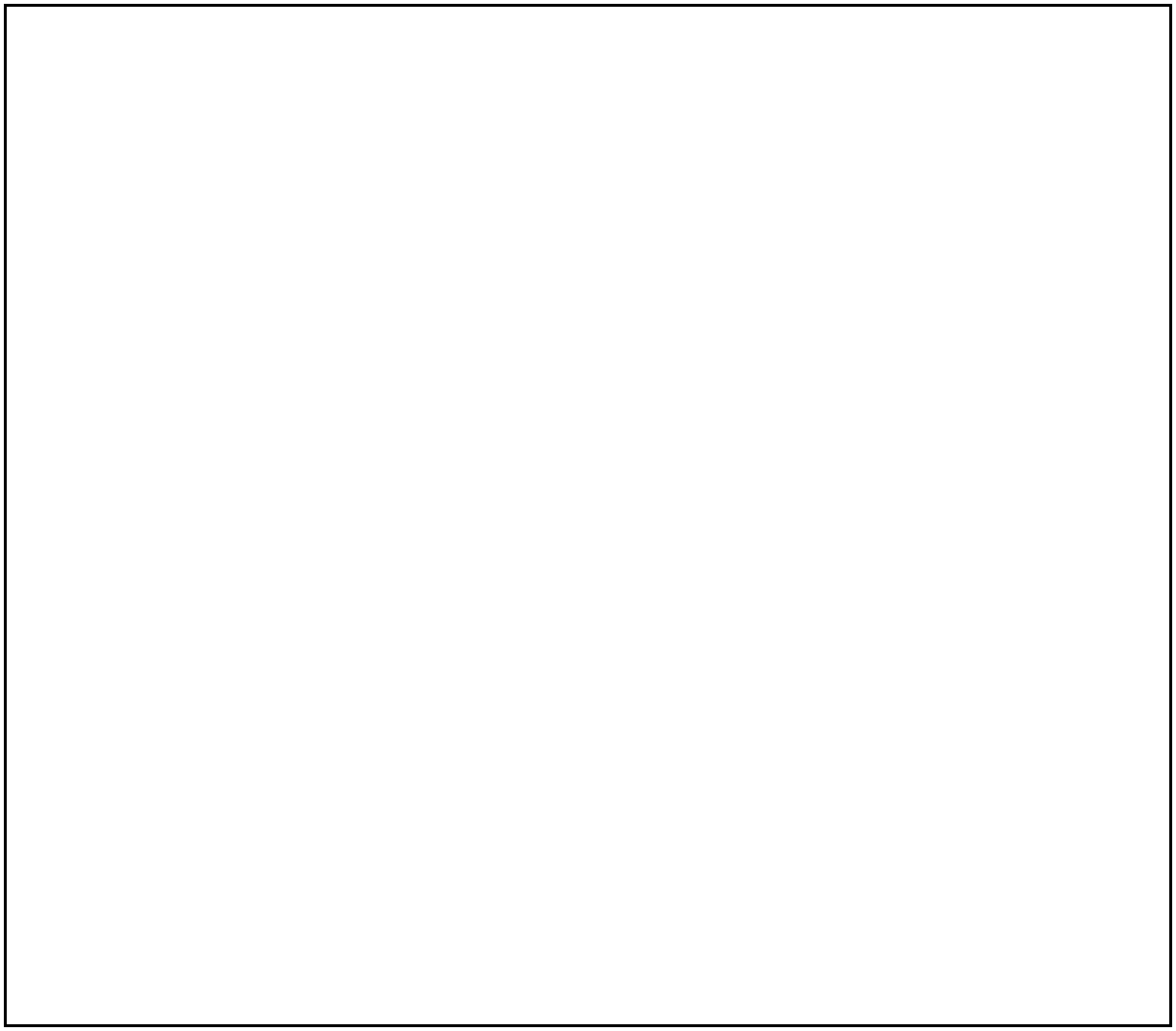
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Inspection by: H.B. Crowther

Signed: Ben Crowther: 08.12.23



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Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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DESIGN ASSOCIATES LTD

Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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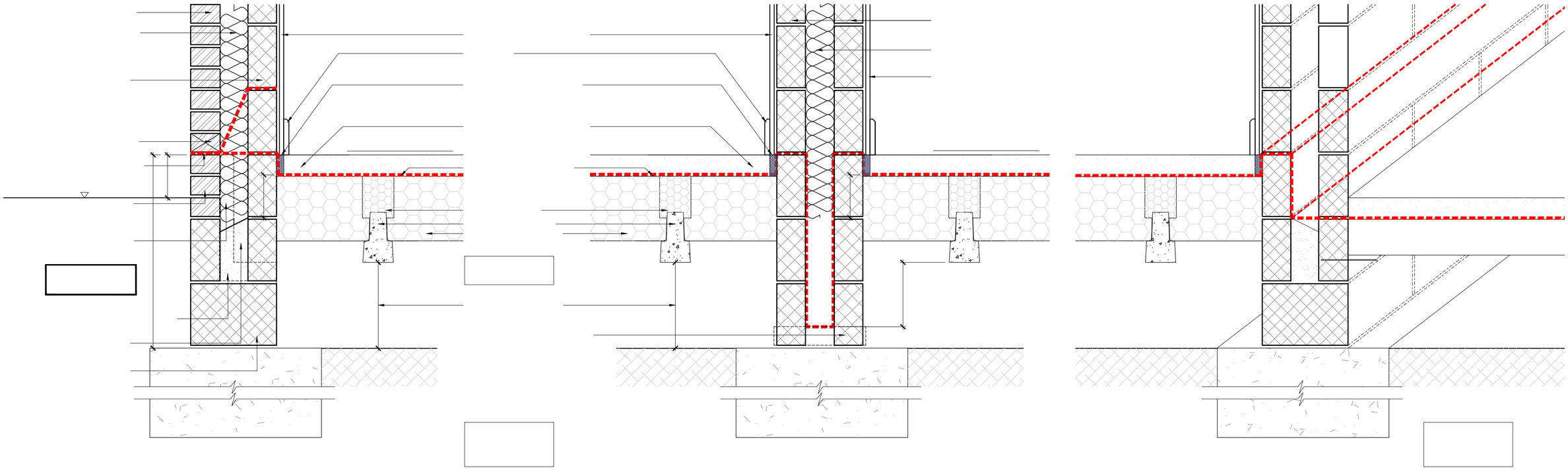
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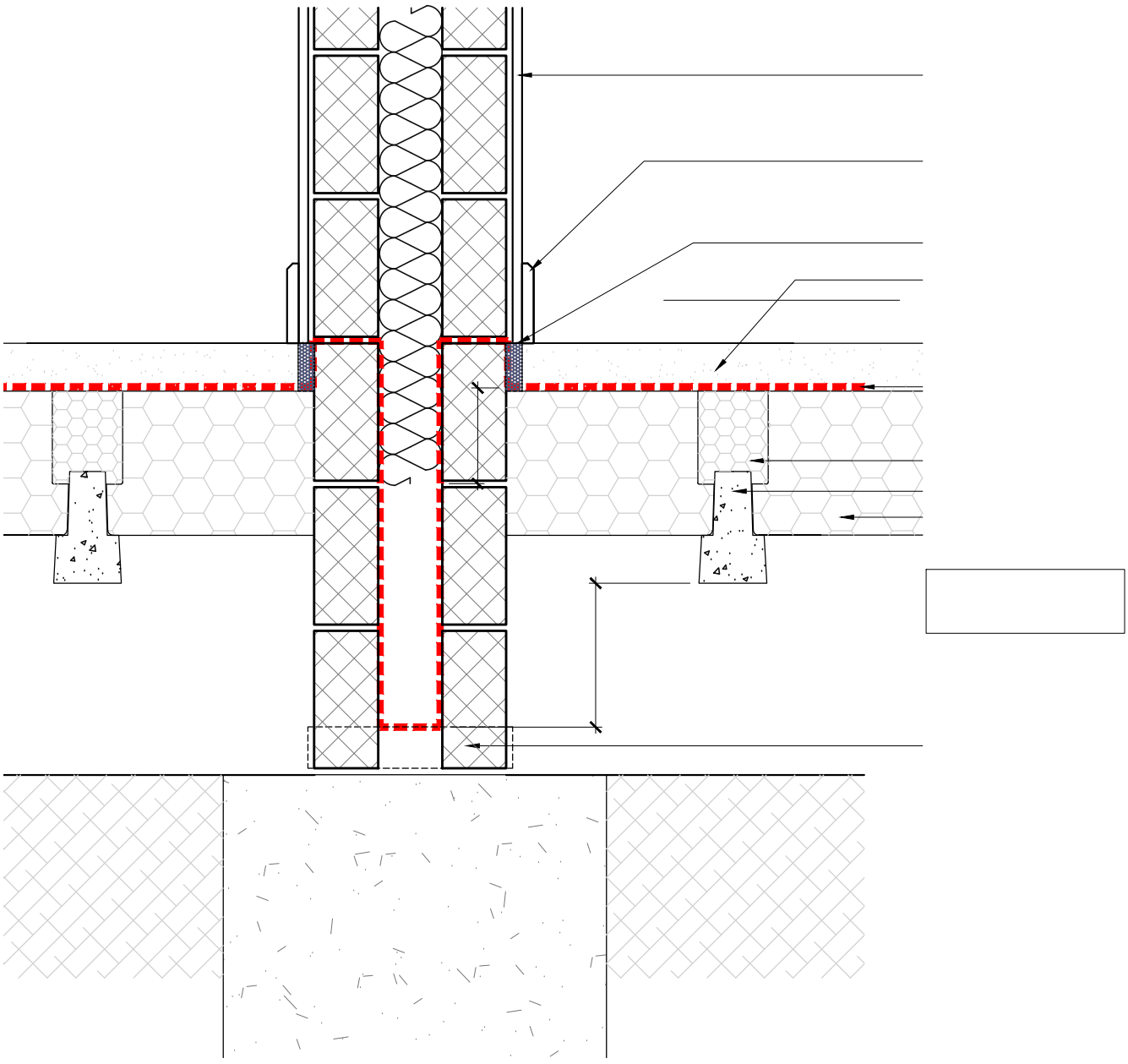
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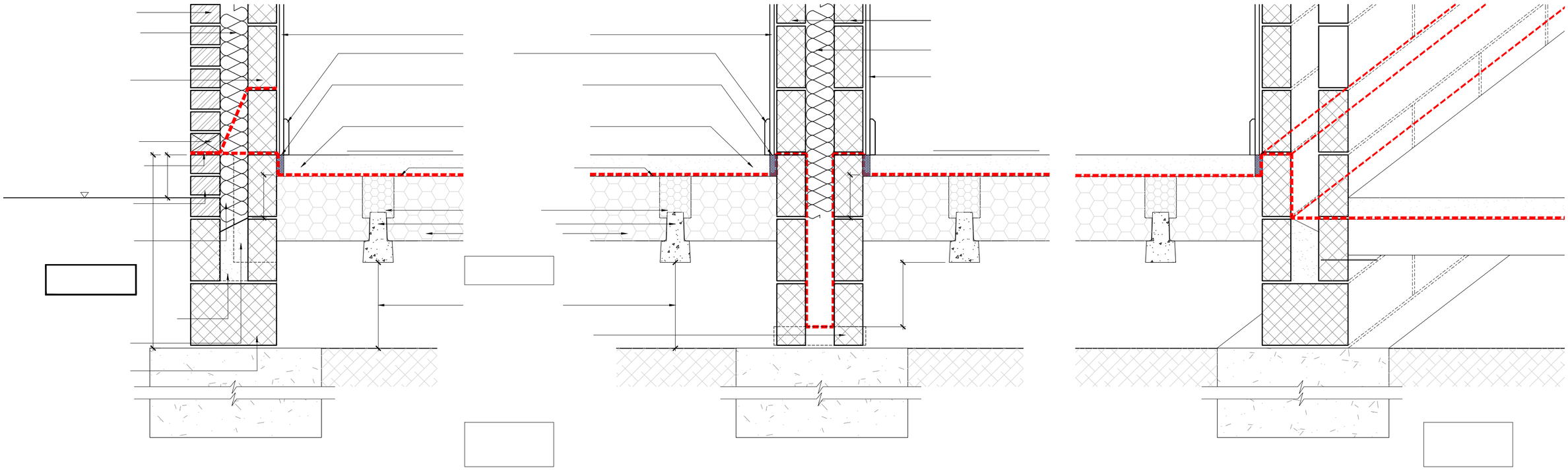
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GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Waters Edge (Salton Bay)
Whitehaven, Cumbria
CA28 9QF

Date / Time:	18.04.24

Signature

Name: Mairead Morony

Signature

Name: *Ben Crowther*

Gleesons Homes
Salton Bay Housing Development (Waters Edge)
High Road
Cumbria
CA289QF

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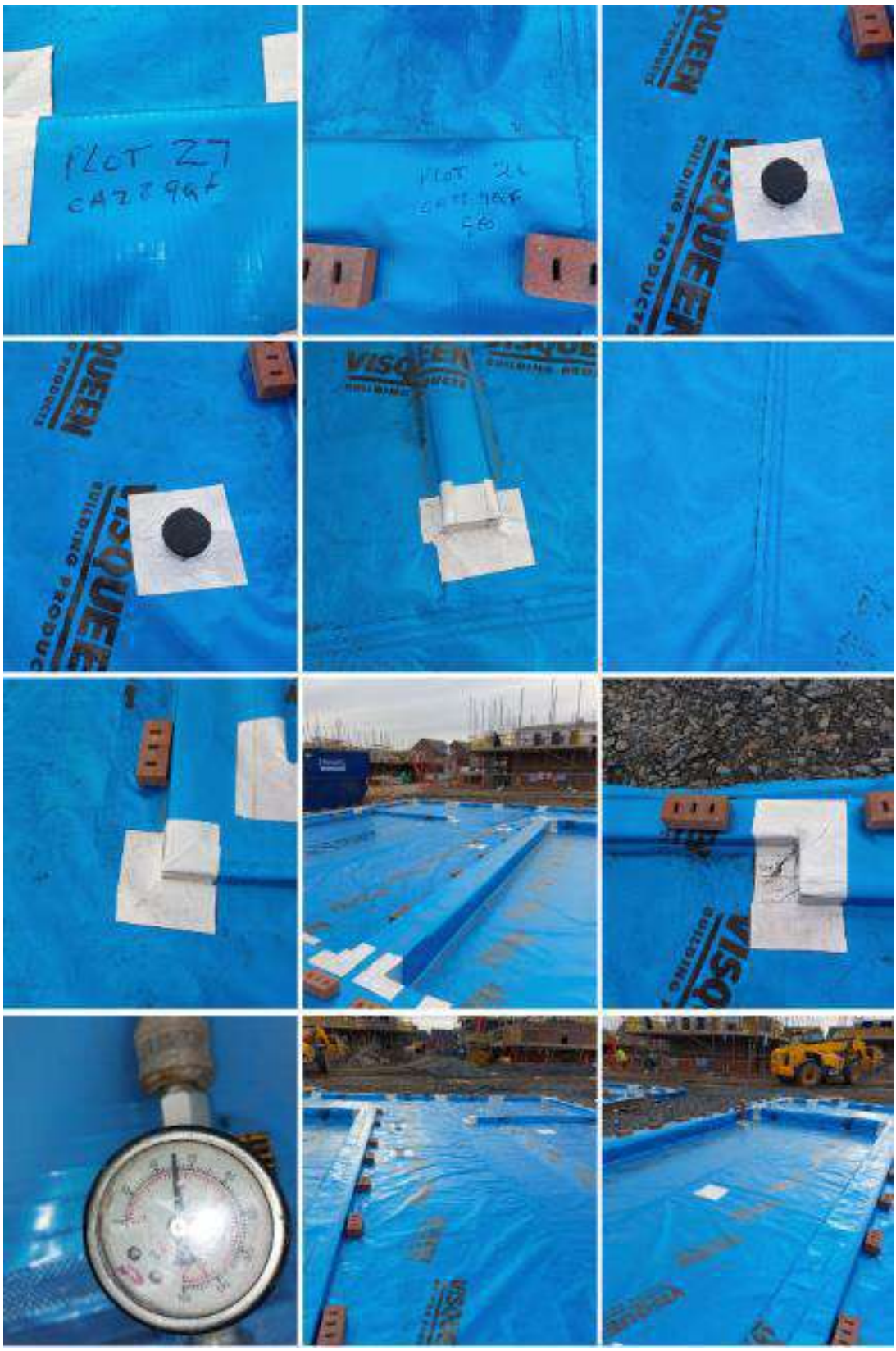
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For and on behalf of geoenginseer.
www.Geoenginseer.co.uk 07817108921

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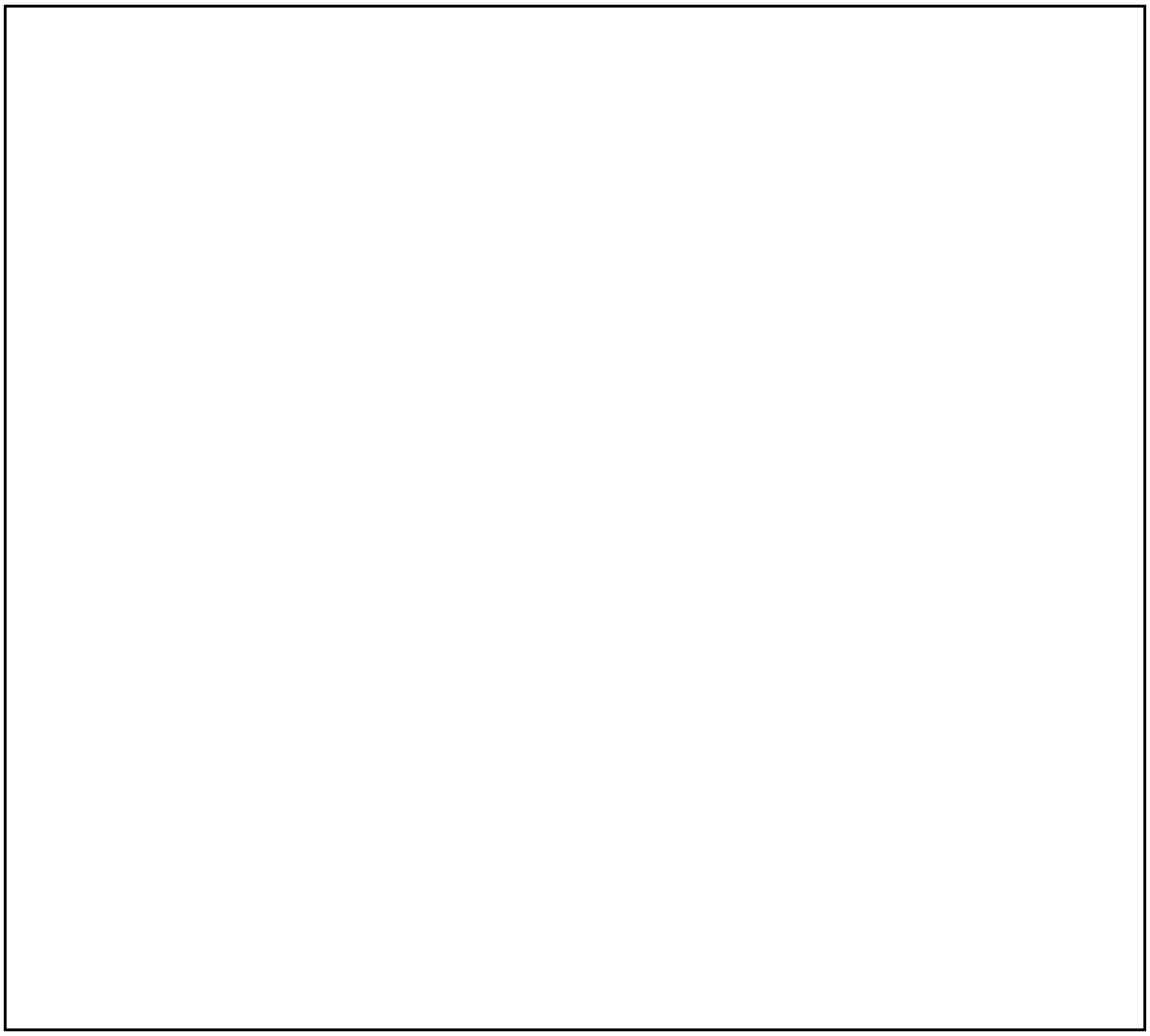
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Inspection by: H.B. Crowther

Signed: Ben Crowther: 06.06.24



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Consultants

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Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
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254	3
301	8
309	4
304	3
341	8
360	3
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436	3
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N

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
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Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

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Professional Indemnity Design
Full Design Liability for Structural Waterproofing and Gas Protection

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

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Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
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Date Published: 22/09/2021

Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

Refer to the Visqueen Gas Barrier material safety datasheet (MSDS).

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Visqueen Gas Barrier

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Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

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The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

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Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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Date Published: 21/07/2023

Visqueen Ultimate HC BLOK

Features and benefits

- Agrement certified - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type A and Type B membrane locations
- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Ultimate HC Blok is a 0.5mm thick, chemically resistant co-extruded volatile organic compound barrier and gas barrier. It is coloured gold on the upper surface and white on the reverse. The product is supplied in single wound rolls (not folded), 2.44m x 41m.

Approvals and standards

- Third party accreditation (BDA certificate BAF-18-051-P-A-UK)
- Complies with NHBC Foundation's NF94 guidance for use in Type A and Type B membrane locations
- Complies with CIRIA C748:2014
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2023
- CE Mark EN 13967:2012
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Ultimate HC Blok is suitable for use in all types of buildings to prevent the ingress of harmful levels of volatile organic compounds (VOCs), methane, carbon dioxide and radon. The barrier can be positioned above or below a concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier also acts as a damp proof membrane.

Radon, carbon dioxide, methane, and VOC protection – NHBC NF94 guidance:
Visqueen Ultimate HC Blok when installed with either taped or welded joints (welded only for VOC protection) complies with NHBC Foundation's NF94 publication, Hazardous ground gas - an essential guide for housebuilders, in Type A membrane locations in precast suspended segmental subfloors and reinforced cast in situ concrete floor slabs (ground bearing, suspended or raft). Visqueen Ultimate HC Blok also complies with this guidance when installed with welded joints in Type B membrane locations in reinforced cast in situ concrete floor slabs (ground bearing, suspended or raft). For site or zone characteristic gas situations of CS4 and above, contact Visqueen Technical Services.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- Visqueen Ultimate Double Sided Jointing Tape, 100mm x 15m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Find your local stockist

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
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Visqueen Ultimate HC BLOK

Storage and handling

Visqueen Ultimate HC Blok should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Ultimate HC Blok should be installed on a smooth continuous surface free from irregularities such as voids or protrusions e.g. grouted beam and block floor, 50mm thick sand blinding, or smooth concrete blinding.

The membrane can be cut with a sharp retractable safety knife or robust scissors.

Installation

Visqueen Ultimate HC Blok should be loose laid on the substrate with the gold side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Ultimate Double Sided Jointing Tape and sealed with Visqueen GR Lap Tape. Alternatively lap joints can be heat welded to achieve an effective seal. The overlap in the barrier is typically 100mm and when hand welding, a 35mm weld is normally achieved. When hand welding, a roller must be used.

Airtight seals should be formed around all service entry points. Visqueen Ultimate Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Ultimate Double Sided Jointing Tape and sealed with Visqueen GR Lap Tape. The upstand should be secured with the supplied jubilee clip. Alternatively VisqueenPro Detailing Strip can be used to seal service entry points. The upstand should be secured with a jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Ultimate Preformed Units are used e.g. corners. Alternatively VisqueenPro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Ultimate Double Sided Jointing Tape and sealed with Visqueen GR Lap Tape. Alternatively a patch can be formed using VisqueenPro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGUARD protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Ultimate HC Blok and all associated system components should not be installed below 5°C.

Additional information

When used in accordance with CIRIA C748:2014 or BS8485:2015 + A1:2019, a subfloor ventilation system or pressure relief maybe required
To assist build sequencing, Visqueen Ultimate Gas DPC is available for gas protection through the wall constructions.
For suspended beam and block floor detailing see HC-01
Visqueen Ultimate Preformed Top Hat Units should be used at service pipe penetrations see HC-51
For internal and external corners Visqueen Ultimate Preformed Corner Units are available see PFU-553
To seal around steel columns use VisqueenPro Detailing Strip see HC-52
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Visqueen Ultimate HC BLOK

Property	Test method	Units	Criteria	Result	
Colour				Gold/white	
Weight		kg		49	
Length	EN 1848-2	m	-0/+10%	41	
Width	EN 1848-2	m	-0/+10%	2.44	
Thickness	EN 1849-2	mm	+/-10%	0.5	
BS 8485 and C748 physical test results		Units	Criteria	Result	
Puncture	BS EN ISO 12236:2006	N	MDV	1640	
Impact resistance Method A hard surface	EN 12691	mm	MDV	200	
Impact resistance Method B soft surface	EN 12691	mm	MDV	1250	
Tensiles yield strength MD 1	ASTM D4885-01	kN/m	MDV	5.1	
Tensiles yield strength CD 1	ASTM D4885-01	kN/m	MDV	4.91	
Yield elongation MD 1	ASTM D4885-01	%	MDV	76	
Yield elongation CD 1	ASTM D4885-01	%	MDV	62	
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	60.2	
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	66.1	
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	48.7	
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	49.6	
1 - this is at yield and not break as the equipment used was not strong enough to break the membrane					
BS 8485 - Methane testing	Test method	Units	Criteria	Result	
Methane gas transmission rate (unjointed)	ISO 15105-1	ml/m^2/day/ atm	<40	1.3	
Methane gas transmission rate (welded joint)	ISO 15105-1	ml/m^2/day/ atm	<40	24	
Carbon dioxide gas transmission rate	ISO 15105-1	ml/m^2/day/ atm	<40	8.3	
C748:2014 - Permeation vapour tests - 100% concentration		Criteria	ml/m^2/d	mg/m^2/d	mg/m^2/ hr
Benzene	ISO 15105-2	MDV	0.08	70	2.92
Toluene	ISO 15105-2	MDV	0.09	78.5	3.27
Ethyl benzene	ISO 15105-2	MDV	0.11	93.8	3.91
m,p xylene	ISO 15105-2	MDV	0.01	6.7	0.28
Hexane	ISO 15105-2	MDV	gas	2.6	0.11
Vinyl chloride	ISO 15105-2	MDV	0	6.4	0.27
Tetrachloroethene (PCE)	ISO 15105-2	MDV	0	3.2	0.13
Trichloroethene (TCE)	ISO 15105-2	MDV	solid	0.3	0.01
Naphthalene	ISO 15105-2	MDV	0.03	19.7	0.82
C748:2014 - Chemical immersion testing		weight %	Thickness %	Tensiles/ elongation	
Pass is achieved if the aged membrane is within 25% of the fresh sample					
Benzene	EN 14414	Pass	Pass	Pass	
Toluene	EN 14414	Pass	Pass	Pass	
Ethyl benzene	EN 14414	Pass	Pass	Pass	
(m,p, and o) xylene	EN 14414	Pass	Pass	Pass	
Hexane	EN 14414	Pass	Pass	Pass	

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Property	Test method	Units	Criteria	Result	
Vinyl chloride	EN 14414	Pass	Pass	Pass	
Tetrachlororthene	EN 14414	Pass	Pass	Pass	
Trichloroethene	EN 14414	Pass	Pass	Pass	
Naphthalene	EN 14414	Pass	Pass	Pass	
CE Marking to EN13967 Type A					
Characteristic	Test method	Units	Criteria	Result	
Tensile strength - MD	EN 12311	N/mm^2	MDV	32.8	
Tensile strength - CD	EN 12311	N/mm^2	MDV	33.1	
Tensile elongation - MD	EN 12311	%	MDV	699	
Tensile elongation - CD	EN 12311	%	MDV	723	
Joint strength	EN 12317-2	N	MDV	265	
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass	
Resistance to impact	EN 12691	mm	>MLV	200	
Durability watertightness after heat ageing	EN 1296	-	Pass/Fail	Pass	
Durability watertightness against chemicals	EN 1847	-	Pass/Fail	Pass	
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	245	
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	270	
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	1034	
Water vapour transmission - permeability	EN 1931	$g/m^2/d$	MDV	0.13	
Radon permeability	Sp Method 3873	m^2/s	MDV	$<1.5 \times 10^{-12}$	

Health and safety information

Refer to the Visqueen Ultimate HC Blok safety datasheet (SDS).

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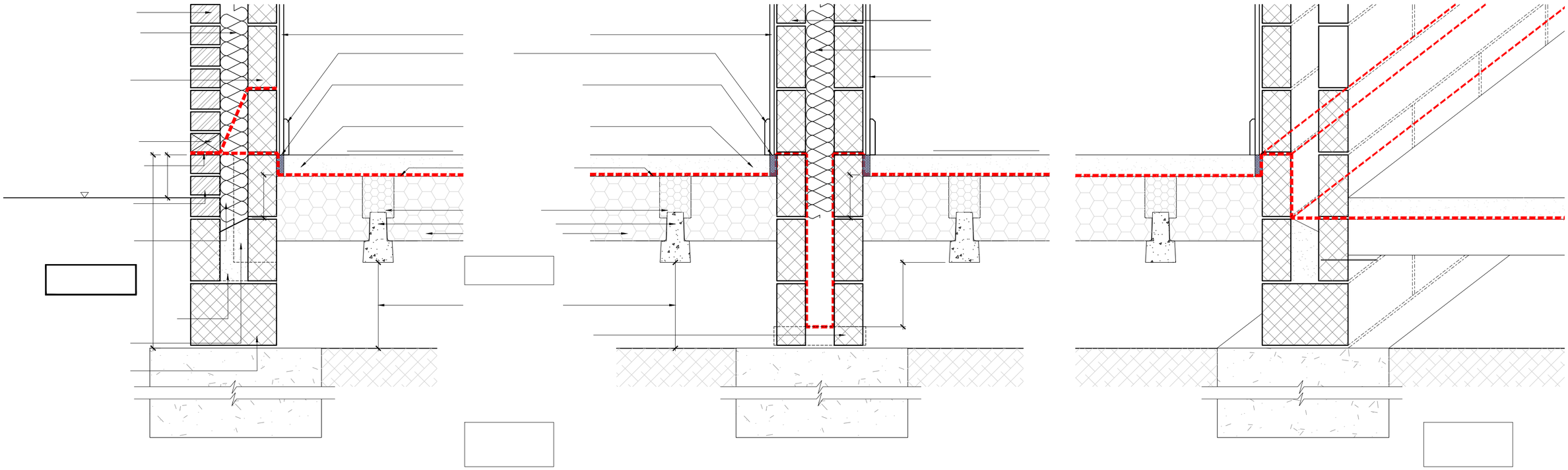
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Visqueen Training Academy

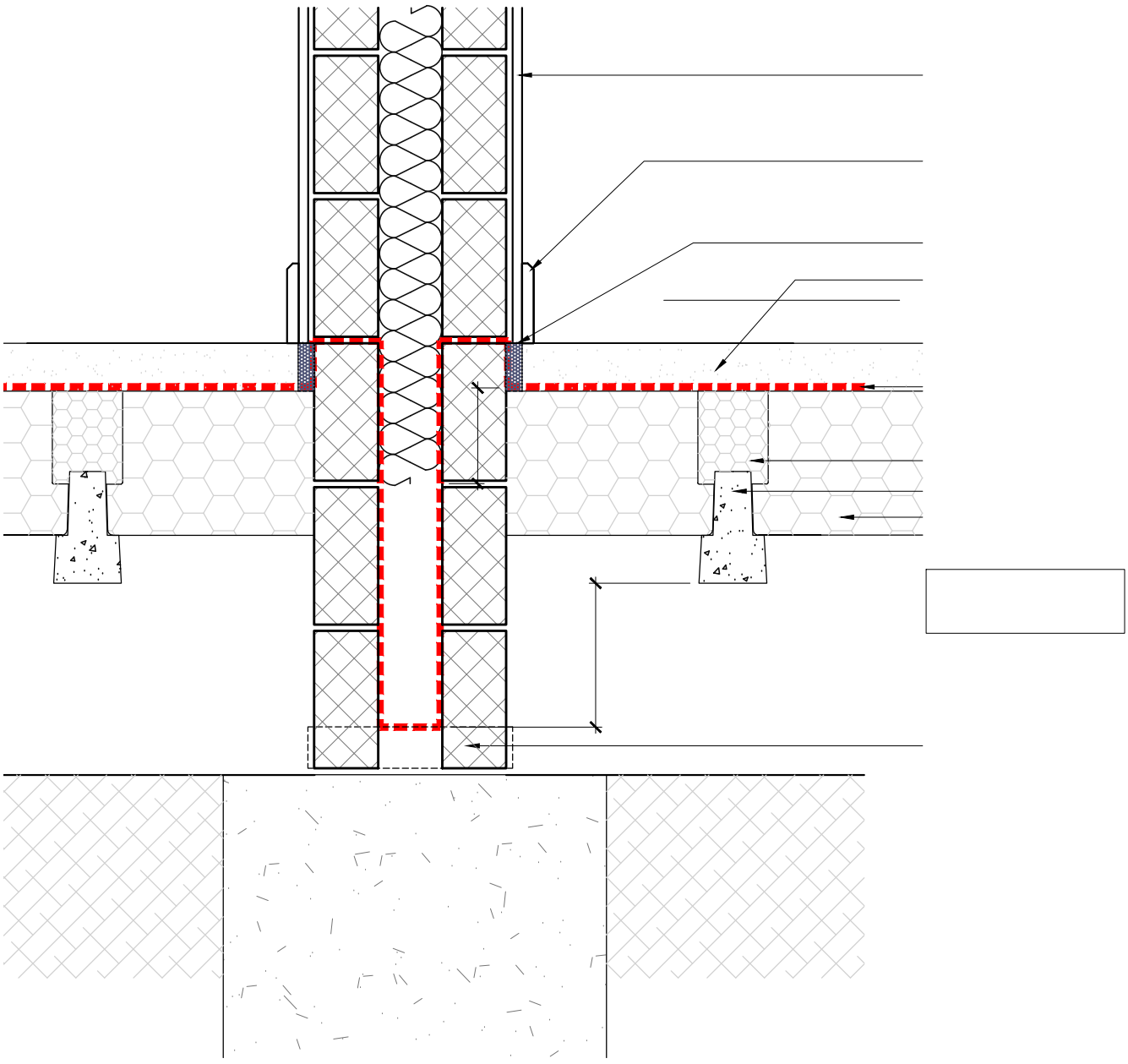
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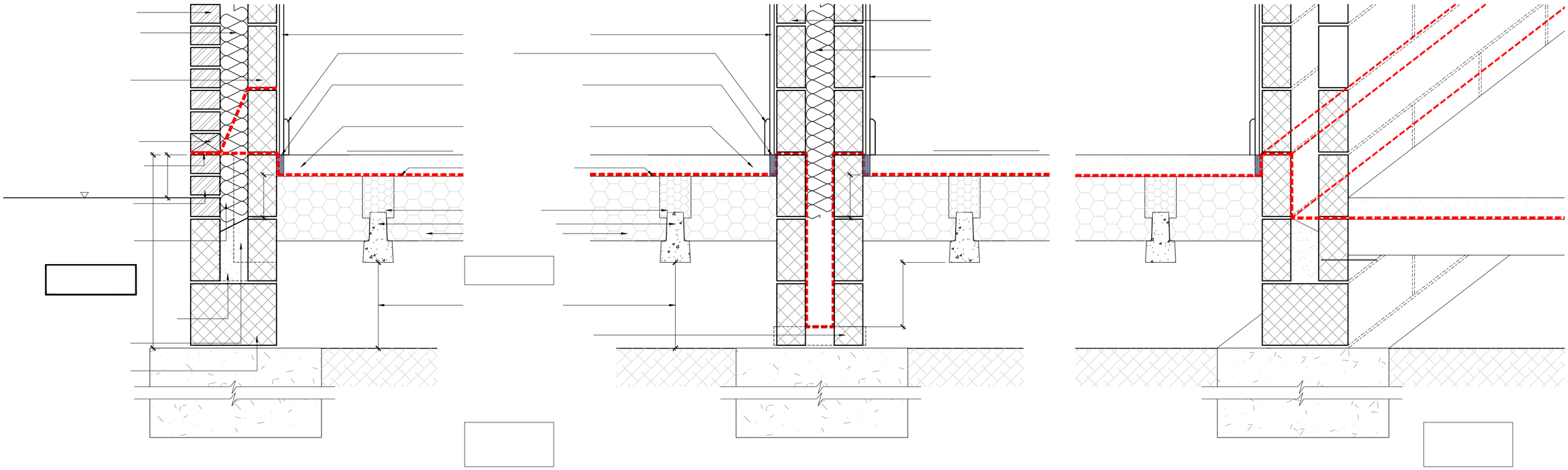
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gleeson



gleeson



gleeson



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date / Time:	20.03.24 0845hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther

Salton Bay
Waters Edge
High Road
Cumbria CA28 9QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

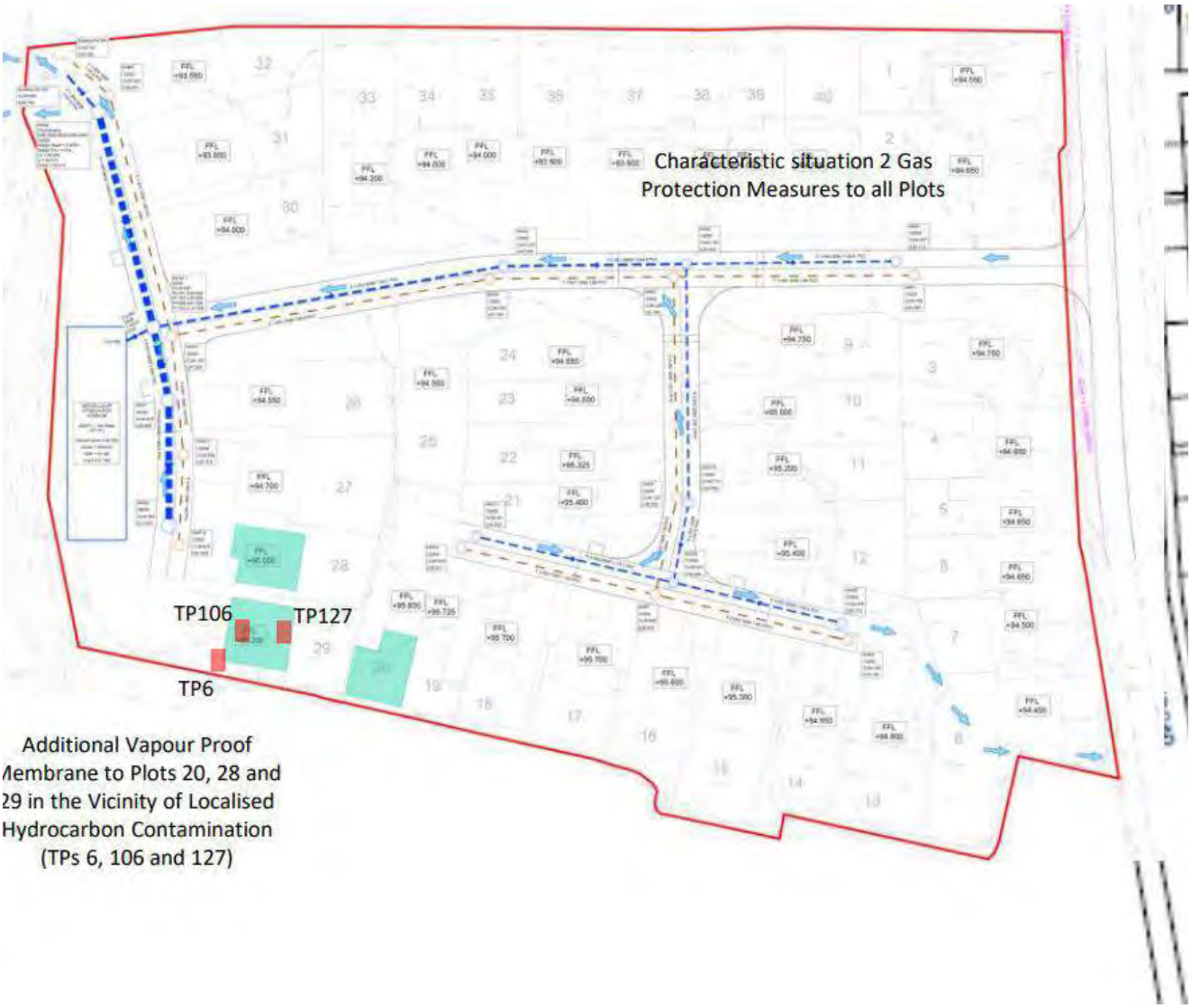
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

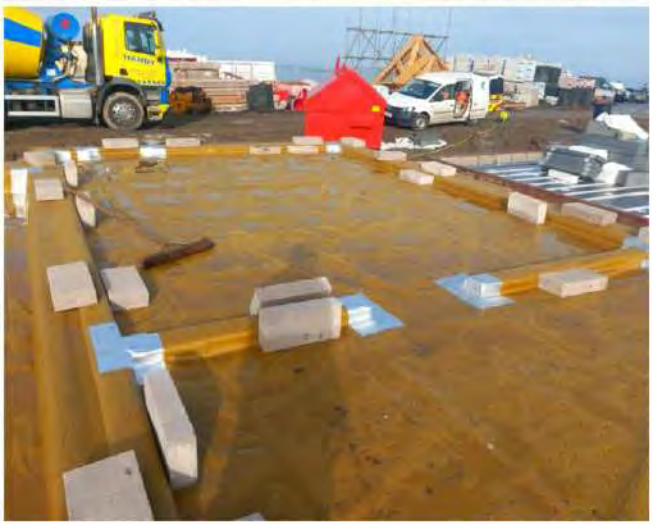
Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

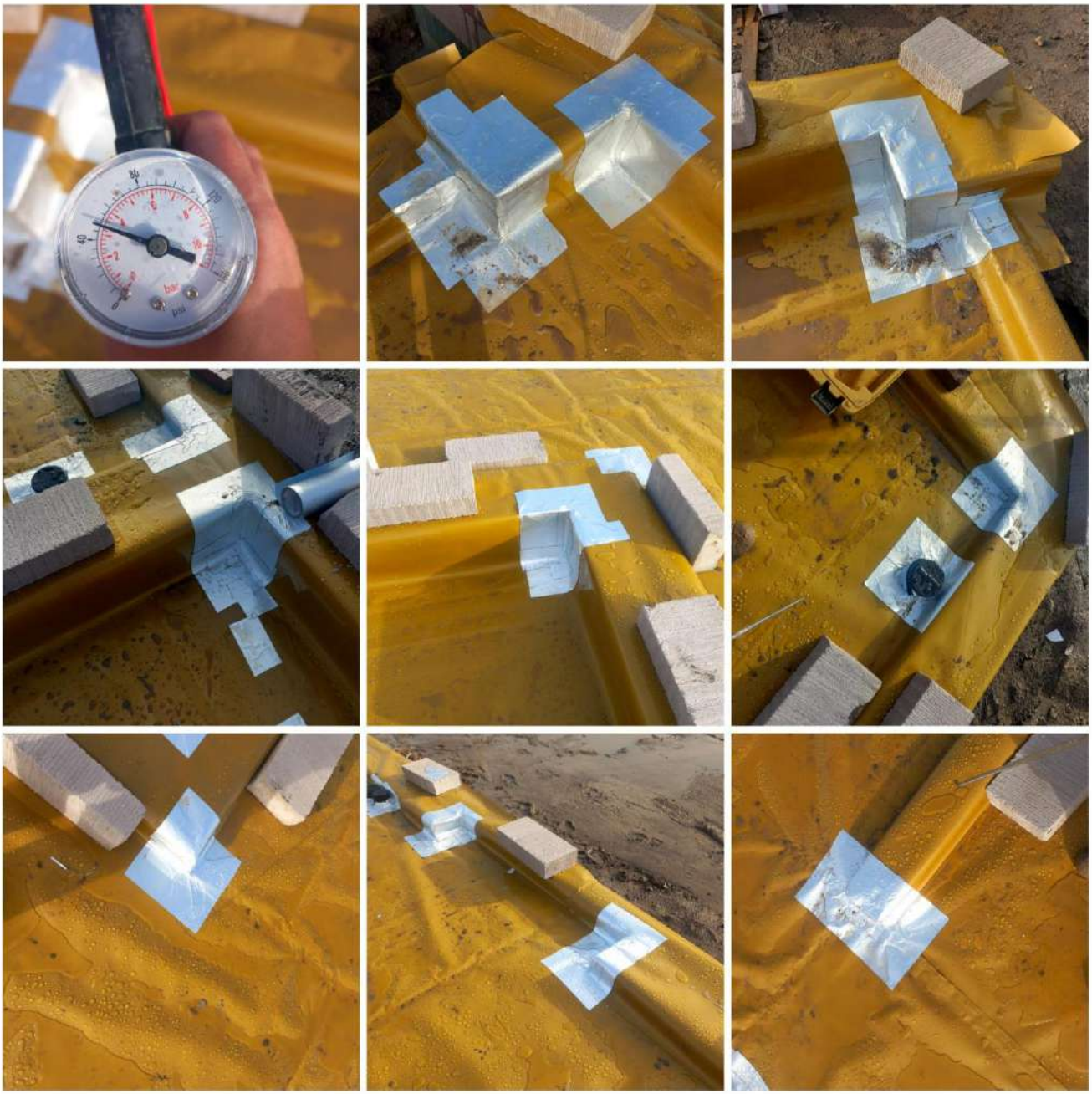


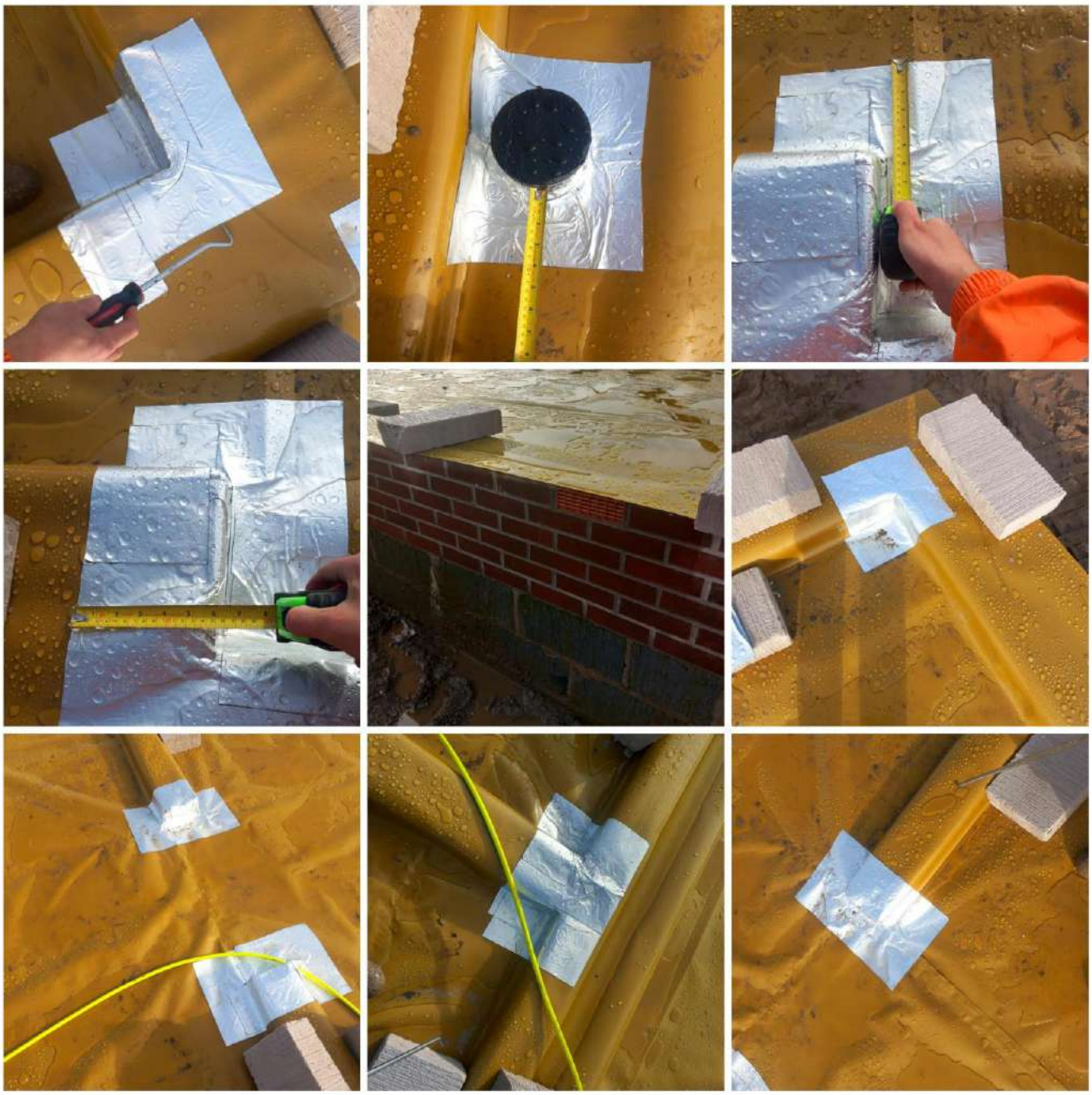

Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)













Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?

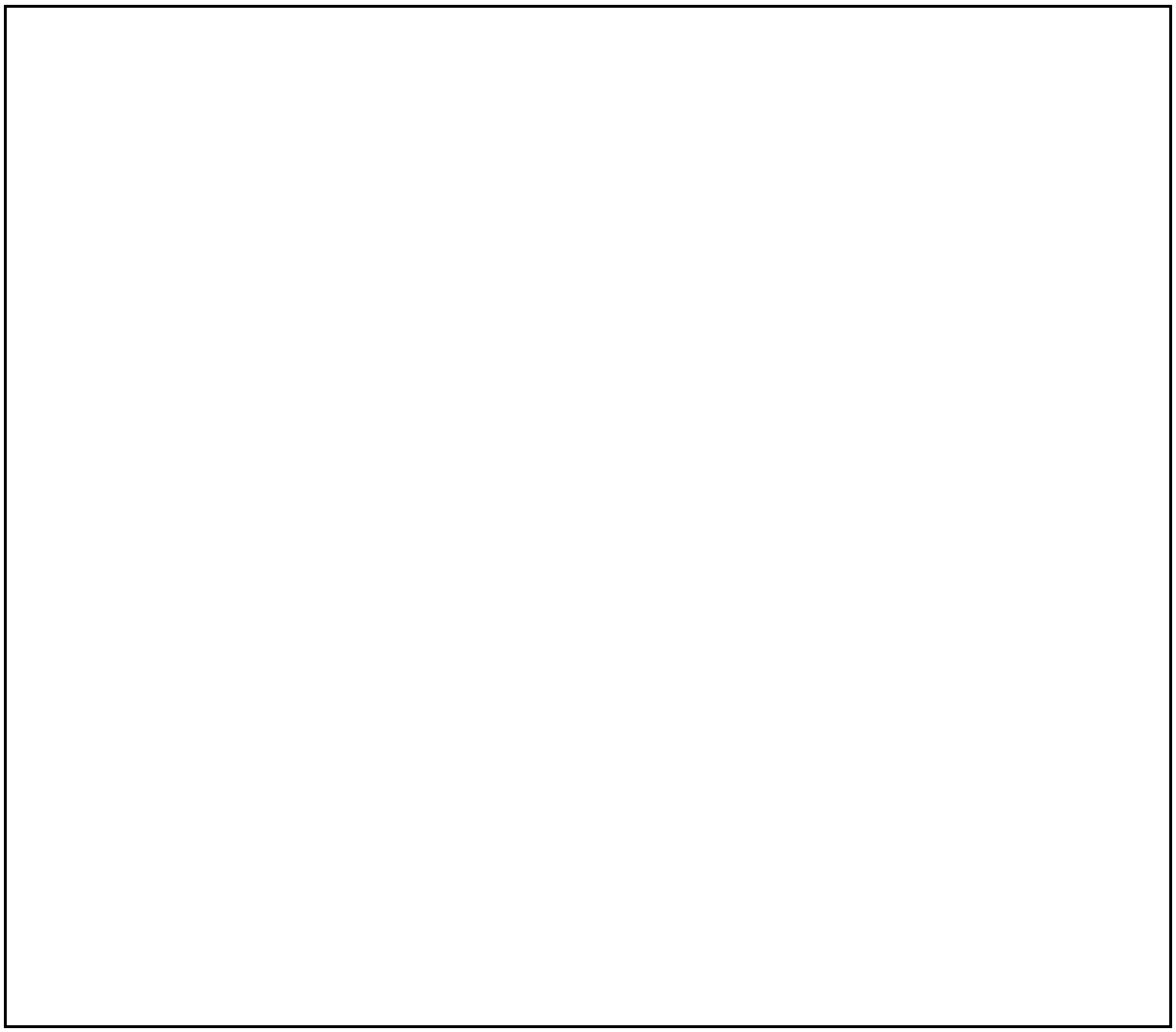
Visual inspection has been completed by specialist sub-contractor Paul Carter – Jones of GeoEnginSeer Ltd on behalf of Gleeson Homes with the inspection completed concurrently with integrity testing.

These plots have **PASSED** inspection.

An additional inspection IS NOT required for these plots. However, proof of sealing the service conduit gap between services (water/gas/electric) outer face and the edge of the service conduit is requested.

Inspection by: H.B. Crowther

Signed: Ben Crowther: 20.03.24



GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

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GEO Environmental Engineering



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_____ *B.Sc. (Hons), FGS.*

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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

ASHWOOD
DESIGN ASSOCIATES LTD

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Technical support: +44 (0) 333 202 6800

Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Full Design Liability for Structural Waterproofing and Gas Protection

VISQUEEN PROFESSIONAL SERVICES

Start your next project with us today, visit www.visqueen.com or call us on +44 (0) 333 202 6800

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying a screed or final floor covering. A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier the wire reinforcements and spacers must be prevented from puncturing the barrier. Where there is a high risk of potential damage, the barrier should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

Usable temperature range

It is recommended that Visqueen Gas Barrier and all associated system components should not be installed below 5°C.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief maybe required
Where hydrocarbon or VOC contamination is present use Visqueen Ultimate VOC or HC Blok gas protection systems
To assist build sequencing, Visqueen GR DPC is available for gas protection through the wall constructions
For suspended beam and block floor detailing see GB-01
Visqueen Preformed Top Hat Units should be used at service pipe penetrations see GB-51
For internal and external corners Visqueen Ultimate Preformed Units should be used see PFU-553
To seal around steel columns use Visqueen Pro Detailing Strip see GB-52
For additional detailing information, contact Visqueen Technical Services +44 (0) 333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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Visqueen Gas Barrier

Property	Test method	Units	Compliance criteria	Result
Dimensions	EN 1848-2	m		2 x 50
Overall thickness including scrim mesh	EN 1849-2	mm	+/-10%	0.52
Mass	EN 1849-2	g/m^2	-0%/+5%	400
Tensile strength - MD	EN 12311	N	MLV	350
Tensile strength - CD	EN 12311	N	MLV	350
Tensile elongation - MD	EN 12311	%	MLV	20
Tensile elongation - CD	EN 12311	%	MLV	21
Joint strength	EN 12317-2	N	MLV	332
Watertightness 2kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	150
Dart impact	BS 2782	g	MDV	731
Low temperature flexibility	EN 495-5	°C	MDV	-40
Durability against ageing	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	368
Resistance to static loading	EN 12730	kg	MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	7000
Water vapour transmission - permeability	EN 1931	g/m^2/d	MDV	0.03
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Reaction to fire	EN 13501-1	Class	MDV	F
BS 8485:2015 + A1:2019 testing requirements				
Mass	EN 1849-2	g/m^2	Average >370	400
Methane permeability	ISO 15105-1	mls/m^2/d/atm	Pass/Fail	<0.15
Puncture CBR	BS EN ISO 12236	N	MDV	1114
Tensiles yield strength MD	ASTM D4885-01	kN/m	MDV	12.5
Tensiles yield strength CD	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	EN 12730	kg	>MLV	20
Yield elongation CD	ASTM D4885-04	%	MDV	19
Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	48.2
Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	44.8
Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	53.5
Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

Health and safety information

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Visqueen Gas Barrier

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Complete Range, Complete Solution



Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

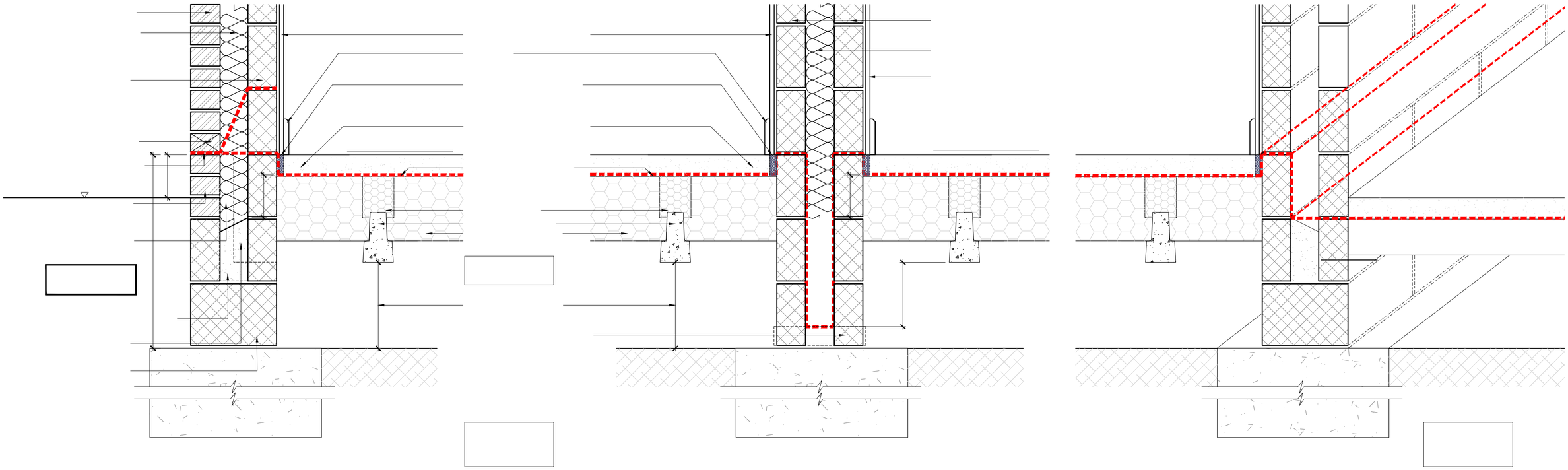
Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

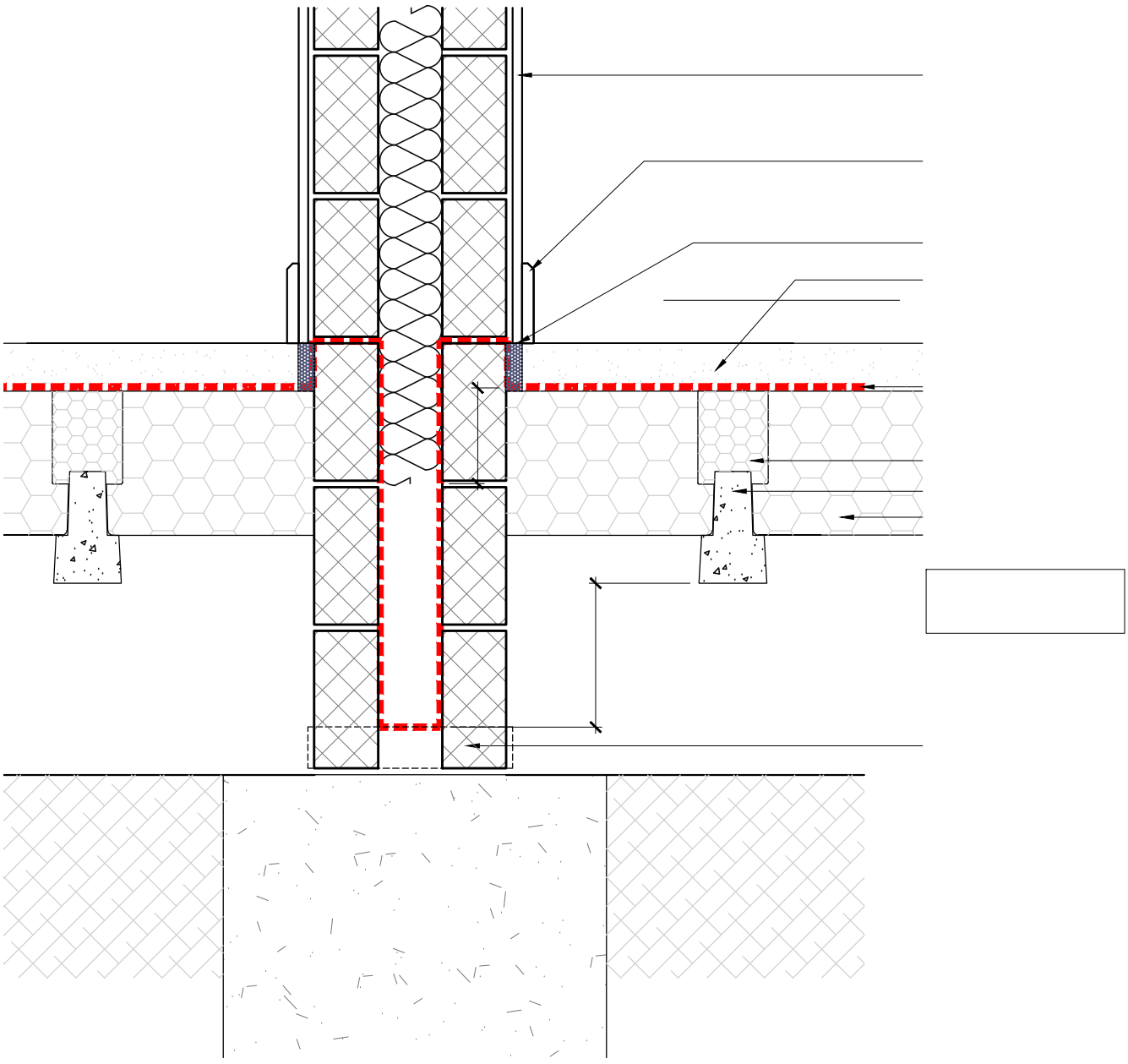
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

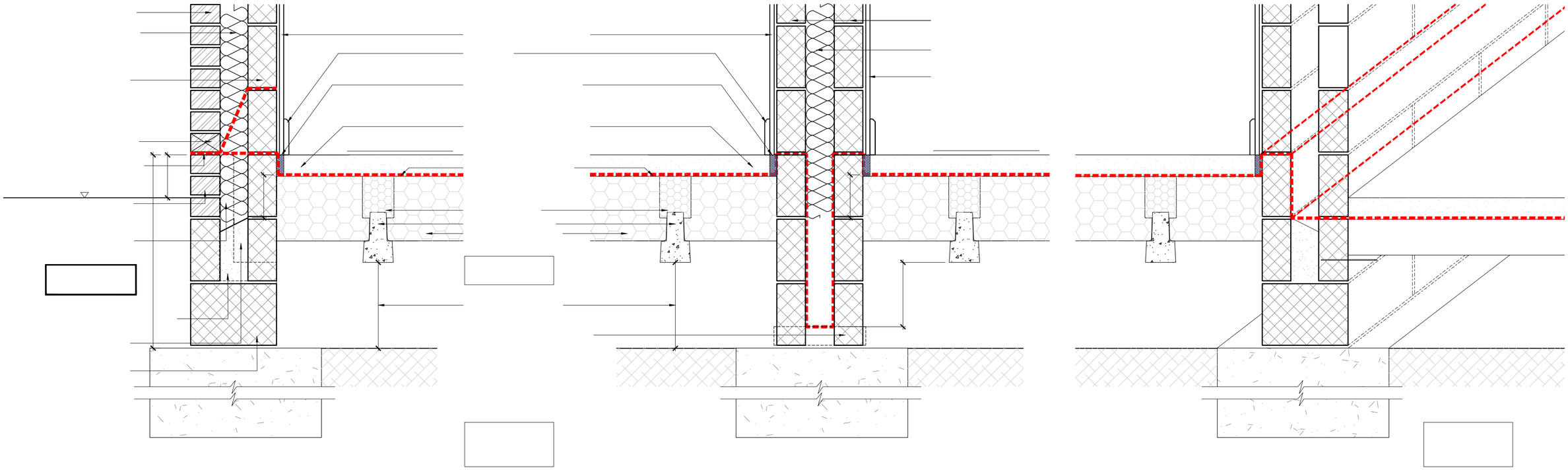
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FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA28 9QF

Date	01.10.24

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther



01768 807 856
Manelli House
Cowper Road
Gilwilly Industrial Estate
Penrith
Cumbria CA11 9BN

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Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

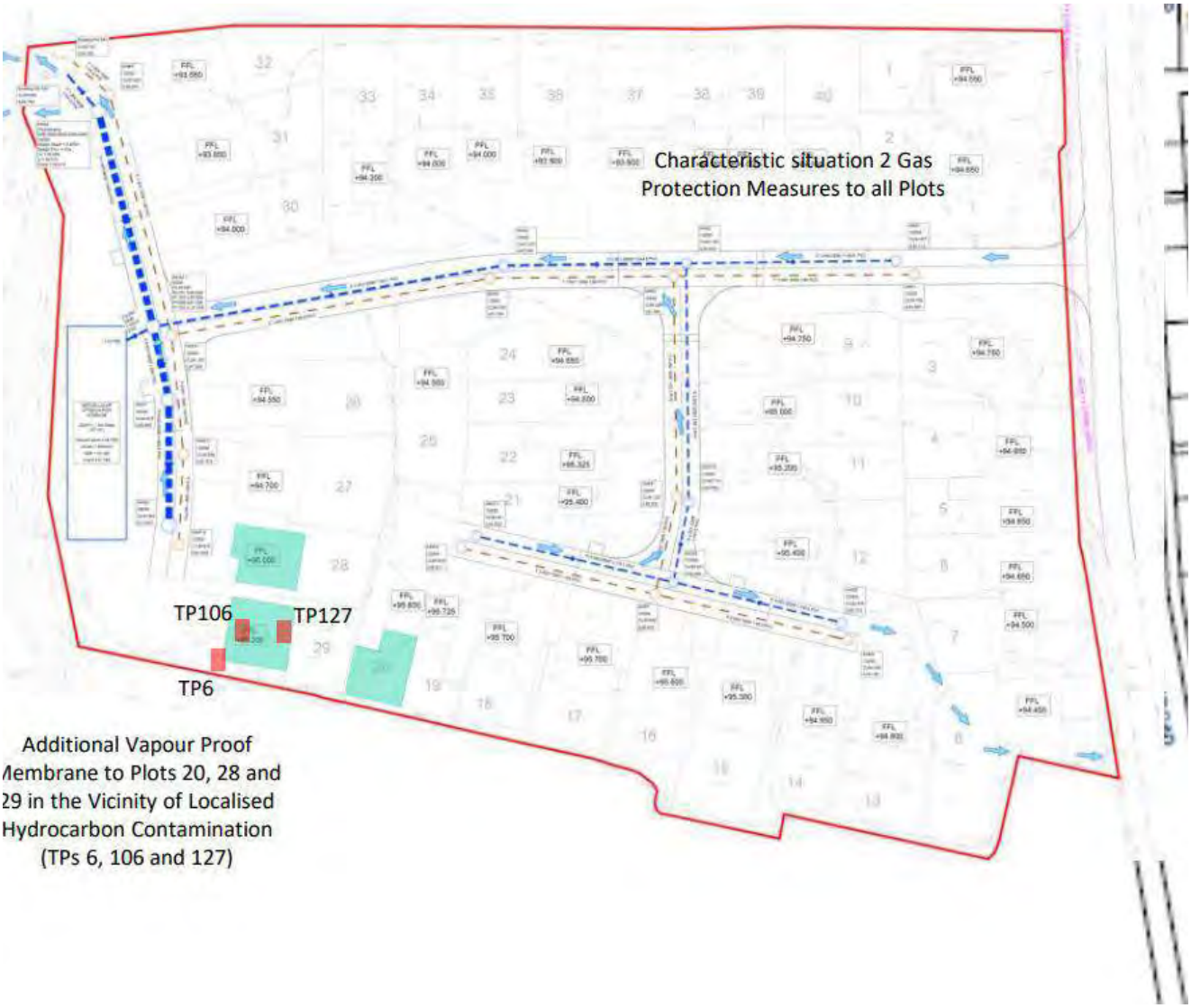
Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

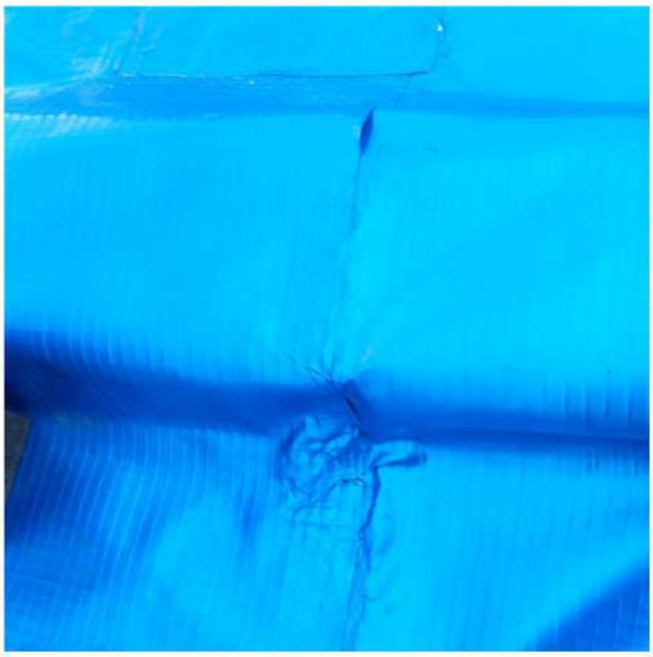



Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)


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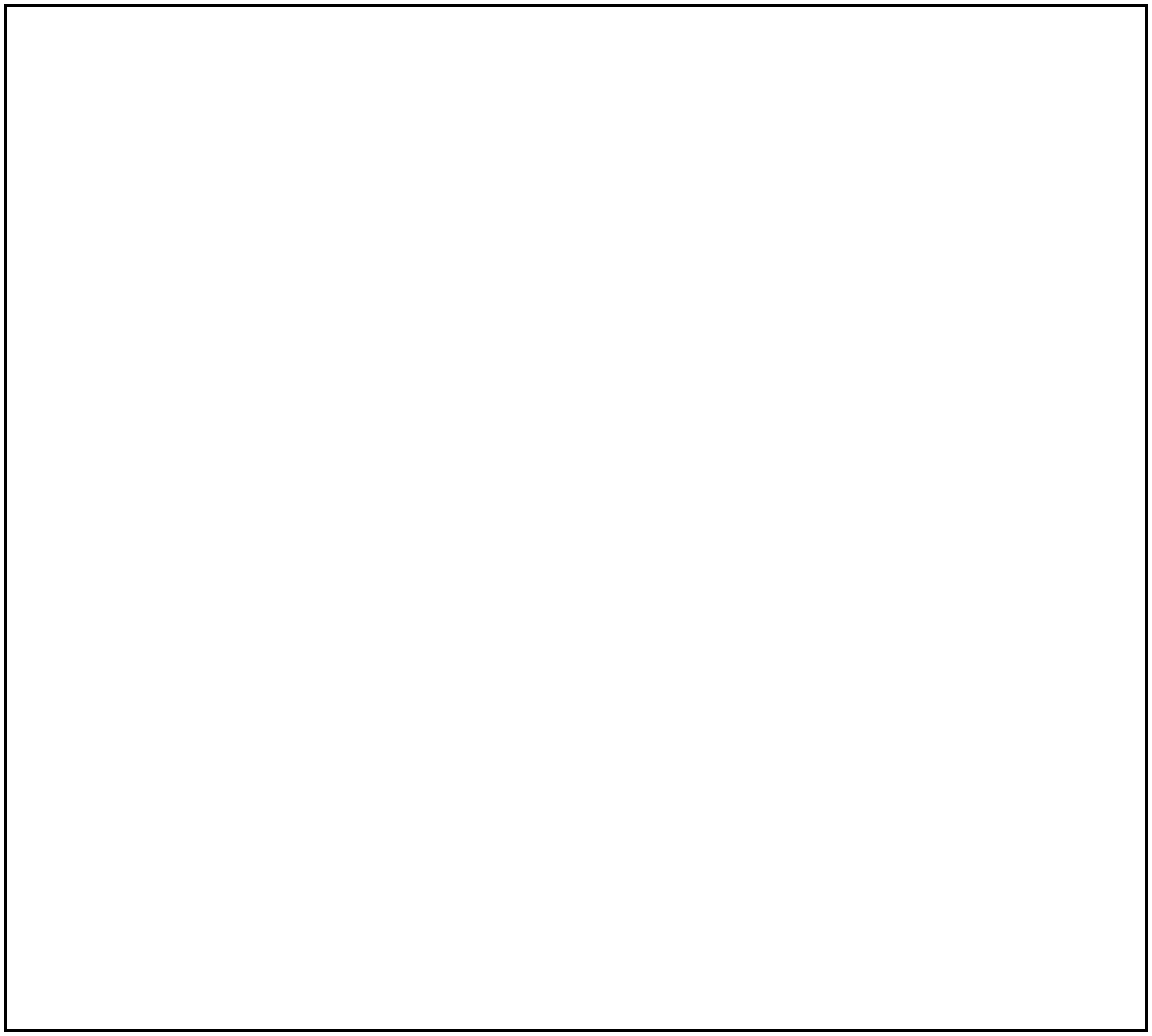
Are the installers suitably qualified / trained? Names of installers / company details?

PRS Professional Remedial Services

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?





GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

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-
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GEO
Environmental Engineering



Website: www.geoenvironmentalengineering.com
Email: info@geoenvironmentalengineering.com
Telephone: 07883 440 186



House Type	Quantity
201	2
254	3
301	8
309	4
304	3
341	8
360	3
435	6
436	3
Total#	40

N

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Date Published: 22/09/2021

Visqueen Gas Barrier

Features and benefits

- BBA certified - third party accreditation
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m.

Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g.methane, carbon dioxide and radon.

The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Visqueen Gas Barrier

Storage and handling

Visqueen Gas Barrier should be stored horizontally, under cover in its original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Barrier should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

When installing the membrane in demanding site conditions, use Visqueen GR Lap Tape in place of Visqueen Gas Resistant Foil Lap Tape.

Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. The upstand should be secured with the supplied jubilee clip.

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If the barrier is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

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Usable temperature range

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Additional information

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Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	60.6

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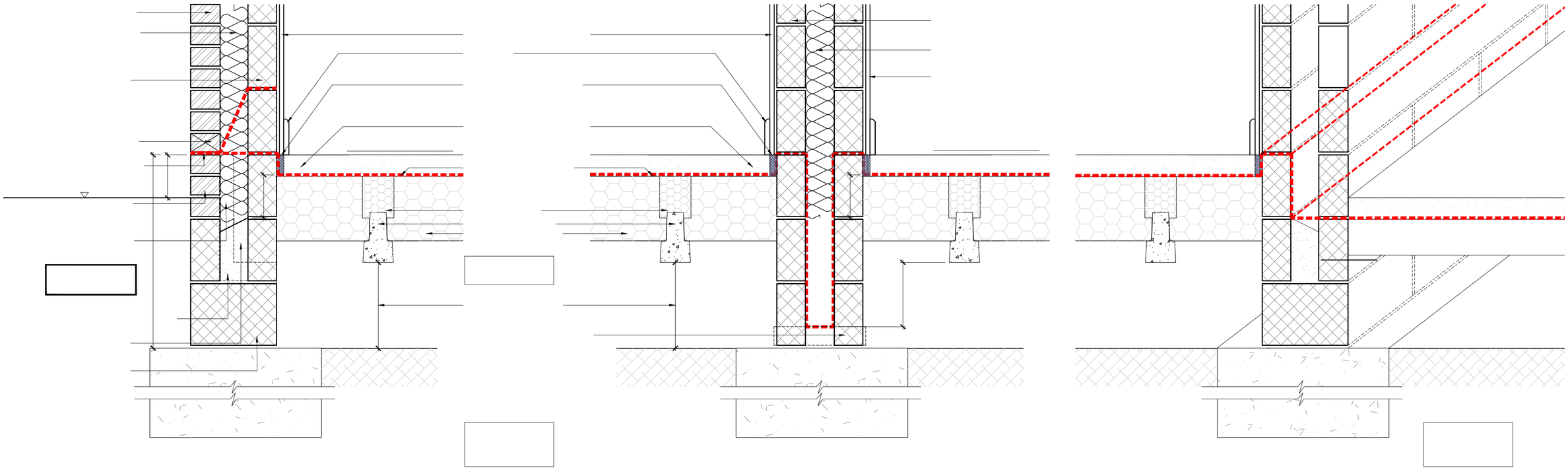
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Visqueen Training Academy

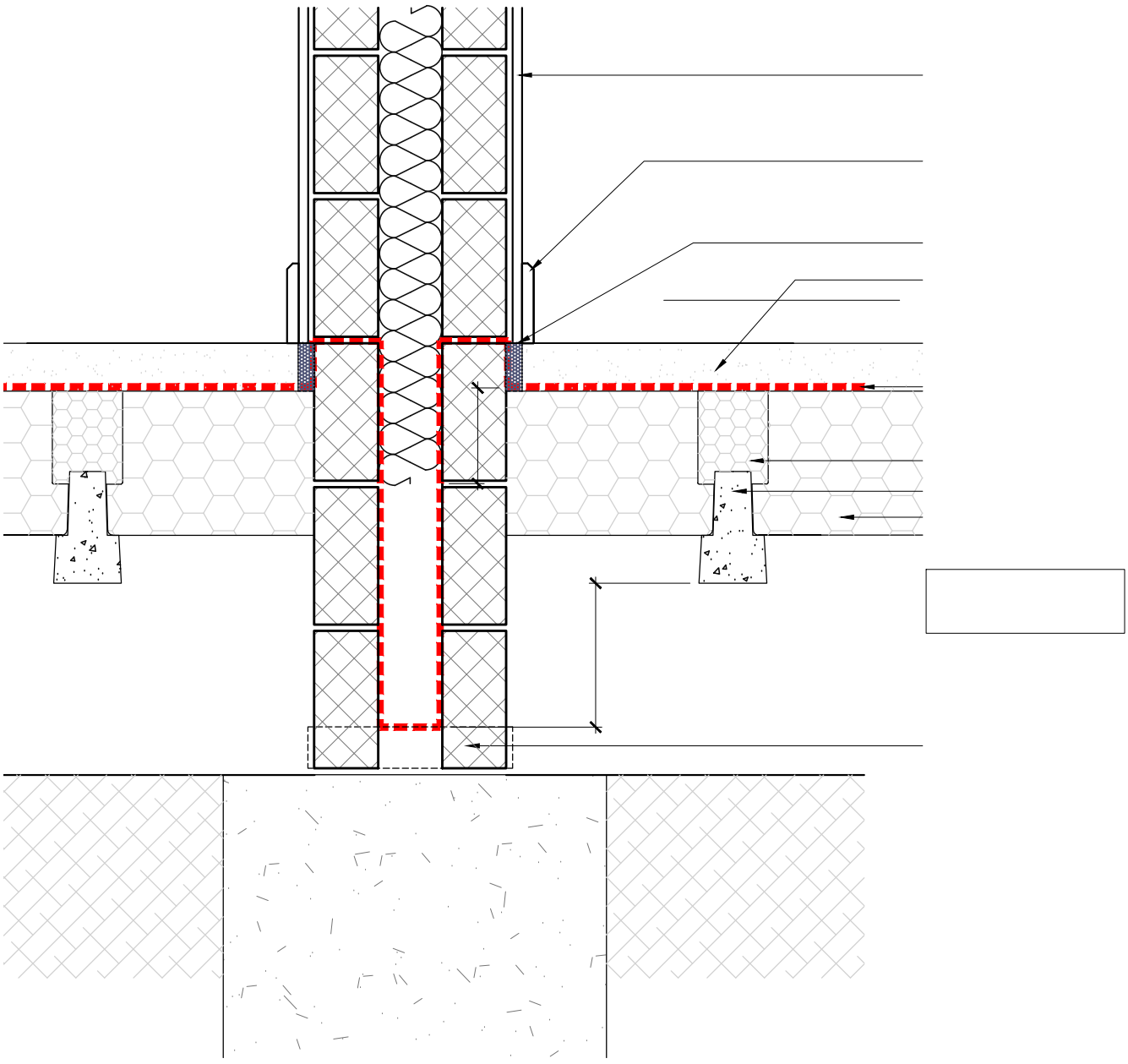
Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

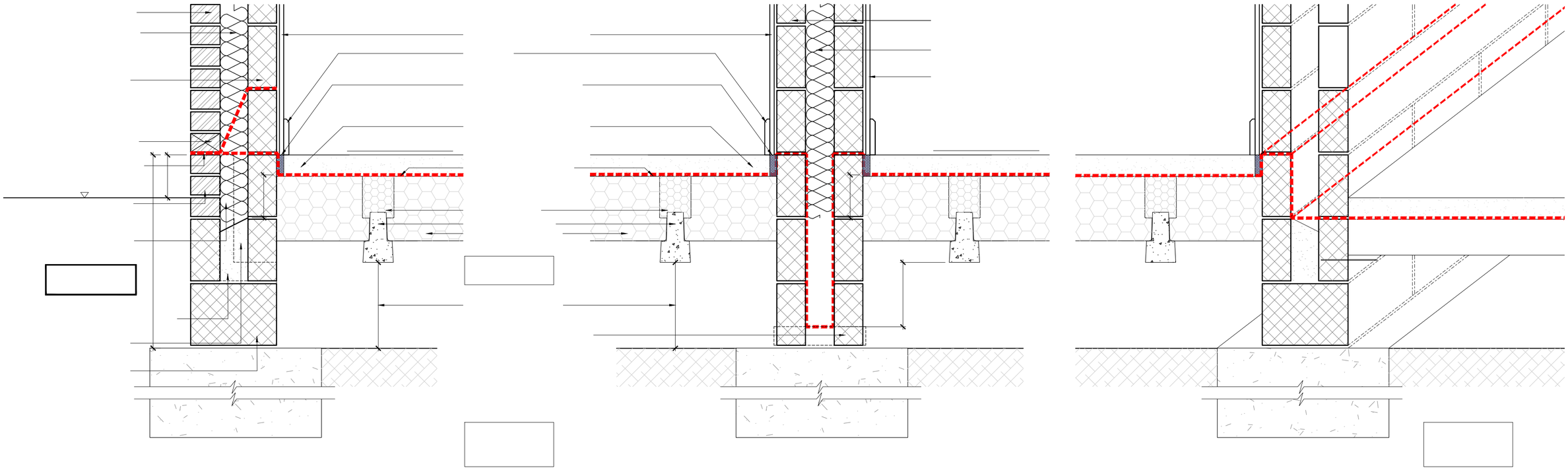
Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com



gleeson



gleeson



gleeson



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

Salton Bay (Waters Edge) High Road Cumbria CA289QF

Date / Time:	12.01.24 900hrs

Signature 

Name: Paul Carter – Jones

Signature 

Name: Ben Crowther

Salton Bay (Waters Edge)
High Road
Cumbria
CA289QF

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

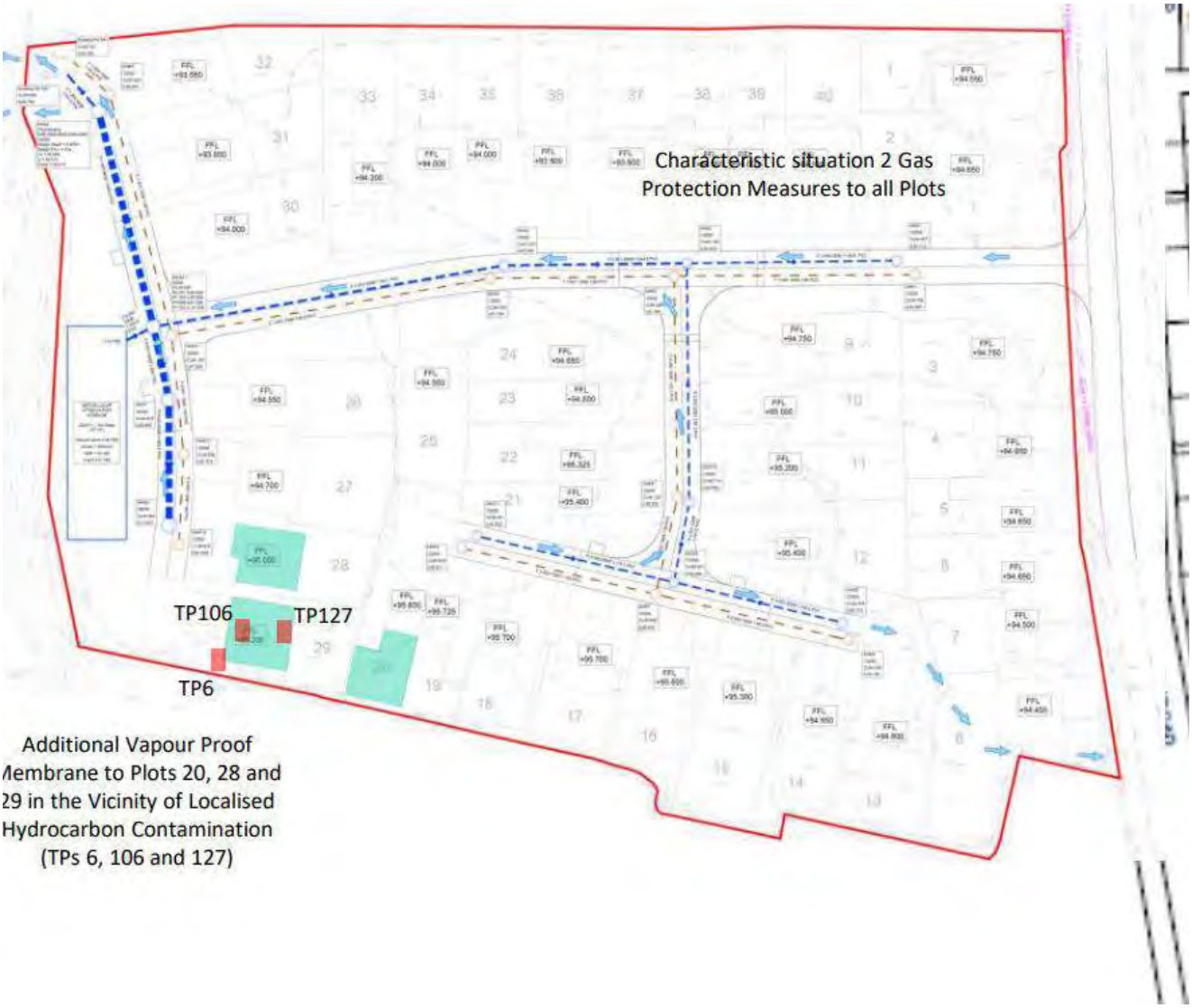
How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

How many? Size? Positioning? Spacing? Etc.

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?


Characteristic situation 2 Gas Protection Measures to all Plots
TP106
TP127
TP6
Additional Vapour Proof Membrane to Plots 20, 28 and 29 in the Vicinity of Localised Hydrocarbon Contamination (TPs 6, 106 and 127)

Plot 37



Plot 38 & 39











Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV
For and on behalf of geoenginseer.
www.Geoenginseer.co.uk 07817108921


0.00
00
0.0
20.6
0.00
00
0.0
20.5
0.00
00
0.0
20.9

Are the installers suitably qualified / trained? Names of installers / company details?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

Remedial actions to be taken? Re-visit to be arranged?

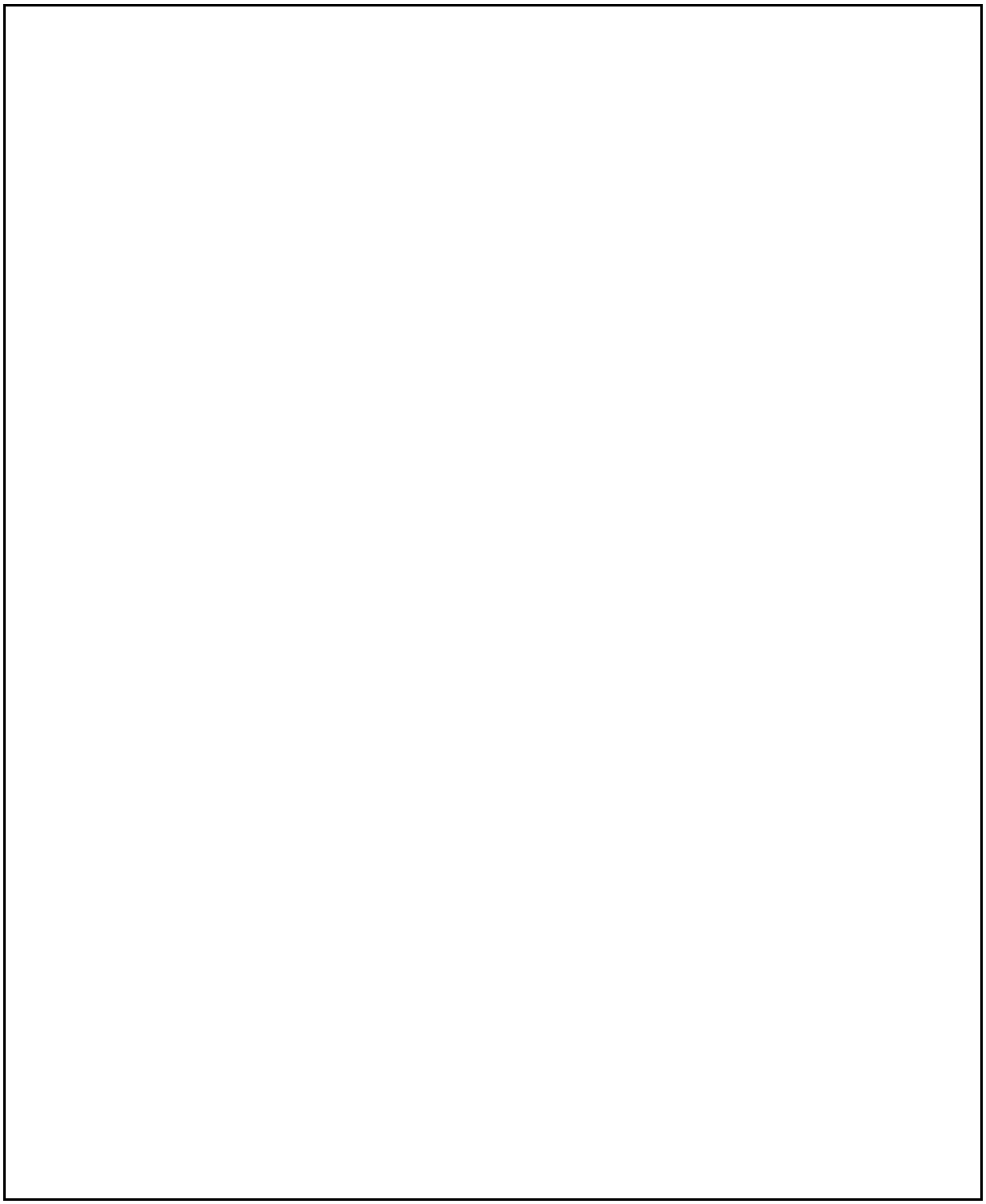
Visual inspection has been completed by specialist sub-contractor Paul Carter – Jones of GeoEnginSeer Ltd on behalf of Gleeson Homes with the inspection completed concurrently with integrity testing.

These buildings have **PASSED** inspection.

An additional inspection IS NOT required for these plots. However, proof of sealing the service conduit gap between services (water/gas/electric) outer face and the edge of the service conduit is requested.

Inspection by: H.B. Crowther

Signed: Ben Crowther: 19.01.24



GEO Environmental Engineering

GEO Environmental Engineering Ltd
Geotechnical
&
Environmental Drilling Experts
&
Consultants

Intellectual Copyright 2024
(GEO Standard Terms and Conditions Apply)

APPENDIX 5

DISPOSAL TICKETS

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11334

Waste Carrier Registration Number CBDU70223

Date: 10/10/22 Vehicle Reg: DX13 HMJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504				
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven
Rubble - 170107		Artic Load		Gleesons X4 Loads
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarmac - 170302		78.60		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Top Soil

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		19.40
		19.40
		20.10
Whitehaven Golf Club - EPRBB3839RK		19.20
		78.60
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	A. SHAW	Driver Signature	D. Clark
Print Name	A SHAW	Driver Print Name	DAVID CLARK

C&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10726

Waste Carrier Registration Number CBDU70223

Date: 10/10/22 Vehicle Reg: PX64 JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILIP CARRUTHERS
Rubble - 170107		Artic Load		x 4 LOADS
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	77-26	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		19.00 19.70 19.36
Whitehaven Golf Club - EPRBB3839RK		19.20
Other - provide details QUERRY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature
Print Name	Driver Print Name C-TEW

Care: Waste Transfer note

L 7208

hazardous waste as defined by waste technical guide WM3 (2015)

tion A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	2
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Salton Bay Heights, 16/15

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: A. SHAW (ADMIN) Signature: A. Shaw Date & Time: 10/10/22.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 38.24 Tonne

Driver Name: C Burton

Signature:

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 10/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

Thomas Armstrong
Overby Quarry.

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7410

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil T Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights, Kells Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ADAMSON Signature: Date & Time: 10.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.56 Tonne

Driver Name:

Signature:

Date of transfer: 10.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 10.10.22

Duty of Care: Waste Transfer note

L 4939

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred CLAY / SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address KELLS, WHITEHAVEN

Post Code

Collection address (if different)

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name J ADAMSON Signature Date & Time 11/10/22

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Weight 56.70 Tonne

Driver Name RICHARD CLARK

Signature R

Waste Carrier Registration No. CBDU 64841

Date of transfer 11/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Operator name and address *

THOMAS ARMSTRONG
OVERBY QUARY

Site Address (if different)

Postcode

Permit No.

Date & Time

..y of Care: Waste Transfer note

L 7409

ON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil & Stone

Waste Type	EWC code	✓
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	2
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 11.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 36.14 Tonne

Driver Name:

Signature:

Date of transfer: 11.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong

Site Address (if different)

Overby Quarry

Postcode:

Permit No.:

Date & Time: 11.10.22

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11337

Waste Carrier Registration Number CBDU70223

Date: 11/10/22 Vehicle Reg: PX13 HYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504				
Clay - 170504		8 Wheeler Load	✓	Edgehill whitehaven
Rubble - 170107		Artic Load		gleesons x1 Load
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.50		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Top Soil

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details Overby	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature A. Shaw	Driver Signature D Clark
Print Name J ADAMSON	Driver Print Name David Clark

Duty of Care: Waste Transfer note

L 7363

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: HOMES

Post Code:

Collection address (if different): KELLS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 55.30 Tonne

Driver Name: J Mowbray

Signature: J Mowbray

Date of transfer: 11 - 10 22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

Site Address (if different)

ARMSTRONGS
OVERBY

Postcode:

Permit No.:

Date & Time:

1 load
1 load
1 load

ıty of Care: Waste Transfer note

L 4941

ɴ hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred CLAY/SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address KELLS
WHITEHAVEN

Post Code

Collection address (if different)

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name J ARMSTRONG Signature Date & Time 12/10/22

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road
Lillyhall
Workington

Post Code CA14 4JP

Weight 94.7 Tonne

Driver Name RICHARD CLARK

Signature

Waste Carrier Registration No. CBDU 64841

Date of transfer 12/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Date & Time

Operator name and address *

THOMAS ARMSTONGS
OVERBY QUARRY

Site Address (if different)

Postcode

Permit No.

Duty of Care: Waste Transfer note

L 5016

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SOIL + STONE

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler		
4 Wheeler		
Grab	✓	4
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSON Signature: Date & Time: 12/10/22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 61 Tonne

Driver Name: D BRANNEY

Signature: DB

Date of transfer: 12/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

THOMAS ARMSTRONG
OVERBY QUARRY

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 6173

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESONS HOMES

Address

Post Code

Collection address (if different) FELLS WHITEHAVEN

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WM5 (2015)

Section A & B (Producer)

Name [illegible] Signature Date & Time 12-10-22

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight 18.90 Tonne

Driver Name G. DOVEN

Signature

Date of transfer 12-10-22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Operator name and address *

THOMAS ARMSTRONG QUARRY ASPATRIA 11.40AM

Site Address (if different)

Postcode

Permit No.

Person Receiving

Name

Signature

Date & Time

Duty of Care: Waste Transfer note

L 4718

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	/	+
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address

Post Code

Collection address (if different) GLEESON HOMES
SALTOM BAY
KELLS

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name J ARMSTRONG Signature Date & Time 13.10.22

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road
Lillyhall
Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight 70 Tonne

Driver Name

Signature

Date of transfer 13.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Operator name and address *

QUARRY
ASPATRIA

Site Address (if different)

Postcode

Permit No.

LORRIS

Person Receiving

Name

Signature

Date & Time

Duty of Care: Waste Transfer note

L 7211

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excacted Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson

Kells

Whitehaven

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: A. SHAW Signature: A. Shaw Date & Time: 13/10/22.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.84 Tonne

Driver Name: C. Burton

Signature:

Date of transfer: 13/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

Thomas Armstrong
Oversby Quarry.

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 7292

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY KELLS WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 73.10 Tonne

Driver Name: SHARON LYON

Signature: Shyon

Date of transfer: 13.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

THOMAS ARMSTRONG

Site Address (if different)

OVERBY QUARRY
ASPATRIA

Postcode:

Permit No.:

Date & Time:

# of Care: Waste Transfer note

L 6303

hazardous waste as defined by waste technical guide WM3 (2015)

Se A – Description of Waste

Descrip on of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name Gleeson homes

Address Kells

Post Code

Collection address (if different) Gleeson homes Bottom Bay heights Kells Nr Haven

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by egulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

ection A & B (Producer)

ıme Signature Date & Time 13.10.22

ction C – Waste Carrier (Transferee)

Name Phillip Carruthers Ltd

ress 5 Pitwood Road
Lillyhall
Workington

st Code CA14 4JP

aste Carrier Registration No. CBDU 64841

Weight 75.70 Tonne

Driver Name Eddie Steel

Signature

Date of transfer 13.10.22

ction D – Waste Receiver (Disposal Details)

*delete as appropriate

perator name and address *

hillip Carruthers Ltd
Pitwood Road
lyhall, Workington
\14 4JP

Address (if different)
ıbove

ode

No. EPR/JP3290VP

n Receiving

re

Operator name and address *

T. Armstrong

Site Address (if different)

Overby Nr Aspatria

Postcode

Permit No.

Date & Time 13.10.22

Duty of Care: Waste Transfer note

L 6451

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Kell Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer) JADMA

Name: David Morgan Signature: Date & Time: 13/10/22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 39.3 Tonne

Driver Name: David Morgan

Signature:

Waste Carrier Registration No.: CBDU 64841

Date of transfer:

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. ARMSTRONG AGG LTD
WORKINGTON RD E
FLIMBY
MARYPORT CA15 8RY

Site Address (if different)

OVGRBY QUARRY
WESTNEWTON
ASPATRIA

Postcode: CA7 4NG

Permit No.: EPR EB 3132RG

11:18
(1) Load 18.5 T
(2) 19.00 T

Person Receiving

Name: Paul Greer

Signature:

Date & Time: 13/10/22 12-15pm

Duty of Care: Waste Transfer note

L 6217

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SOIL & STONE

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): GLEESON
Saltom Bay
Heights
Kells Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: ~~C PATTINSON~~ J ARMSTRONG Signature: Date & Time: 13-10-22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 76.4 Tonne

Driver Name: C PATTINSON

Signature: C Pattinson

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 13-10-22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

THOMAS ARMSTRONG
OVERBY QUARRY
WIGTON

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

ıty of Care: Waste Transfer note

L 4720

azardous waste as defined by waste technical guide WM3 (2015)

n A – Description of Waste

ɔtion of waste being transferred

ste Type	EWC code	
l and Stone	170504	✓
ɔble	170107	
ncrete, brick,	170101	
ks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

ion B – Producer (Transferor) and origin of waste

ame GLEESON HOMES

s

e

Collection address (if different) GLEESON HOMES SALTOM BAY KELLS

Post Code

gistration/Planning Permission /Authority/etc

SIC Code

ɔelow for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by 2 of the waste regulations (2011) and by the waste technical guide WMS (2015)

& B (Producer)

J ARMSTRONG Signature Date & Time

– Waste Carrier (Transferee)

Phillip Carruthers Ltd

5 Pitwood Road

Lillyhall

Workington

e CA14 4JP

Weight 73.10 Tonne

Driver Name STUART BURDON

Signature SBurdon

arrier Registration No. CBDU 64841

Date of transfer 14-10-22

I D – Waste Receiver (Disposal Details)

*delete as appropriate

r name and address *

Carruthers Ltd

d Road

Workington

P

Operator name and address *

OVERBY ASPATRIA

LOADS

1

1

1

1

ess (if different)

Site Address (if different)

Postcode

EPR/JP3290VP

Permit No.

leceiving

Date & Time

Duty of Care: Waste Transfer note

L 7213

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4.
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson
Saltom Bay Heights
lot 115
Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name A. SHAW Signature A.S Date & Time 14/10/22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road
Lillyhall
Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 75.96 Tonne

Driver Name: C. Barker

Signature:

Date of transfer: 4/10/22.

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No. EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

Thomas Armstrong
Overby Quarry.

Site Address (if different)

Postcode:

Permit No.

Date & Time:

ıty of Care: Waste Transfer note

L 7294

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEEDS HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 74.20 Tonne

Driver Name: S. LYON

Signature: Slyon

Date of transfer: 14.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

THOMAS ARMSTRONG

Site Address (if different)

ORGRAVE QUARRY ASPATRIA

Postcode:

Permit No.:

Date & Time:

)uty of Care: Waste Transfer note

L 6305

ON hazardous waste as defined by waste technical guide WM3 (2015)

ection A – Description of Waste

escription of waste being transferred

Waste Type	EWC code	
oil and Stone	170504	✓
ubble	170107	
oncrete, brick, :c	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		4
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

ection B – Producer (Transferor) and origin of waste

ull Name Gleeson Homes

ddress Kells

ost Code

Collection address (if different) Gleeson Homes Saltom Bay heights Whaven

Post Code

ermit/Registration/Planning Permission xemption/Authority/etc

SIC Code

y signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by egulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

ection A & B (Producer)

Name J Armstrong Signature Date & Time 14/10/22 1-30

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight 75.30 Tonne

Driver Name

Signature

Date of transfer 14 10 22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

ite Address (if different)

as above

tcode

it No. EPR/JP3290VP

on Receiving

ure

Operator name and address *

J Armstrong

Site Address (if different)

Wiggy Asphalt

Postcode

Permit No.

Date & Time 14-10 22

L 6220

Duty of Care: Waste Transfer note

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred SOILXSTONE

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address

Post Code

Collection address (if different) GLEESON
SALTOM BAY
HEIGHTS, KELLS
WHITEHAVEN

Post Code

SIC Code

Permit/Registration/Planning Permission Exemption/Authority/etc

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name J. ARMSTRONG Signature C Pattinson Date & Time 14-10-22

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road
Lillyhall
Workington

Post Code CA14 4JP

Weight 75-80 Tonne

Driver Name C PATTINSON

Signature C Pattinson

Waste Carrier Registration No. CBDU 64841

Date of transfer 14-10-22

*delete as appropriate

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Operator name and address *

THOMAS ARMSTRONG
OVERBY QUARRY
WIGTON

Site Address (if different)

Postcode

Permit No.

Date & Time

Duty of Care: Waste Transfer note

L 7420

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Salton Bay, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 17.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.50 Tonne

Driver Name: C. Rothwell

Signature: CP

Date of transfer: 17.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong Overs Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 17.10.22

1 load

Duty of Care: Waste Transfer note

L 7419

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Rise Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J Armour Signature: Date & Time: 17.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.80 Tonne

Driver Name: E. Steel

Signature: E S

Date of transfer: 17.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong Overby

1 load

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 17.10.22

Duty of Care: Waste Transfer note

L 7418

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Salton Heights, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 17.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 57.20 Tonne

Driver Name: S. Palmer

Signature: SP

Date of transfer: 17.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

1 load
1 load
1 load

Person Receiving

Name:

Signature:

Date & Time: 17.10.22

Duty of Care: Waste Transfer note

L 7214

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson, Sallom Bay Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Armstrong Signature: Date & Time: 17/10/22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 55.84 Tonne

Driver Name: C Barker

Signature:

Date of transfer: 17/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

~~Phillip Carruthers~~ Ltd
~~5 Pitwood Road~~
~~Lillyhall, Workington~~
CA14 4JP

Site Address ~~(if different)~~
as above

~~Postcode~~

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Operator name and address *

Thomas Armstrong
Overby Quarry.

Site Address (if different)

Postcode

Permit No.

Date & Time

L 4721

uty of Care: Waste Transfer note

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, tc	170101	
icks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

tion B – Producer (Transferor) and origin of waste

ame Greeson Homes

s

stration/Planning Permission Authority/etc

Collection address (if different) Greeson Homes
Saxon Heights
Whitehaven
CA28

Post Code

SIC Code

below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

& B (Producer) JAMES Signature Date & Time 17.10.22

C – Waste Carrier (Transferee)

e Phillip Carruthers Ltd

5 Pitwood Road
Lillyhall
Workington
CA14 4JP

er Registration No. CBDU 64841

Weight 55.80 Tonne

Driver Name Jodie Clarke

Signature J. Clarke

Date of transfer 17.10.22

*delete as appropriate

Waste Receiver (Disposal Details)

e and address *

ners Ltd
ad
ington

f different)

R/JP3290VP

Operator name and address * Overby Quarry
Wigton
CA7 4NF

Site Address (if different)

Postcode

Permit No.

Date & Time

Duty of Care: Waste Transfer note

L 7297

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	4
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSON Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 72 Tonne

Driver Name: SHARON LYON

Signature: S Lyon

Date of transfer: 17.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

THOMAS ARMSTRONG

Site Address (if different)

ORGBY QUARRY
ASPATRIA

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7423

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler		
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Maghs Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J Armstrong Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.90 Tonne

Driver Name: G Dover

Signature: G.D

Date of transfer: 18.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overs Quarry

Site Address (if different)

Postcode:

Permit No.:

1 load

Person Receiving

Name:

Signature:

Date & Time: 18.10.22

Duty of Care: Waste Transfer note

L 7422

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code		Waste Type	EWC code		How transported		Quantity
Soil and Stone	170504		Tiles/ceramics	170103		Loose		
Rubble	170107		Tarmac	170302		8 Wheeler	✓	1
Concrete, brick, etc	170101					4 Wheeler		
Bricks	170102					Grab		
						Other		

Section B – Producer (Transferor) and origin of waste

Full Name: G Leeson Homes

Address:

Post Code:

Collection address (if different): Silton Bay Heights Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 18.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.00 Tonne

Driver Name: C. Pattinson

Signature: CP

Date of transfer: 18.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overby Quarry

1 load

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 18.10.22

Duty of Care: Waste Transfer note

L 7421

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A - Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bus Height Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 18.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18-90 Tonne

Driver Name: E. Steel

Signature: ES

Date of transfer: 18.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 18.10.22

1 load

Duty of Care: Waste Transfer note

L 7216

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	2
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Sutton Bay Heights Rolls Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: S SMITH Signature: S Smith Date & Time: 18/10/22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.76 Tonne

Driver Name: C. Barker

Signature:

Date of transfer: 18/10/22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address ~~(if different)~~

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

Thomas Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

ıty of Care: Waste Transfer note

L 4722

: hazardous waste as defined by waste technical guide WM3 (2015)

ɔn A – Description of Waste

ption of waste being transferred

e Type	EWC code	
nd Stone	170504	✓
le	170107	
ete, brick,	170101	
s	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

ɔn B – Producer (Transferor) and origin of waste

ne Gleeson Homes

Collection address (if different) Gleeson Homes
Salton Heights
Whitehaven
Cumbria

de

Post Code

Registration/Planning Permission
:ion/Authority/etc

SIC Code

ning below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by tion 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

ɔn A & B (Producer) J Anna

Signature

Date & Time 18.10.22

on C – Waste Carrier (Transferee)

ame Phillip Carruthers Ltd

ess 5 Pitwood Road
Lillyhall
Workington

Code CA14 4JP

te Carrier Registration No. CBDU 64841

Weight 18.50 Tonne

Driver Name Jackie Clarke

Signature J Clarke

Date of transfer 18.10.22

tion D – Waste Receiver (Disposal Details)

*delete as appropriate

rator name and address *

lip Carruthers Ltd
'itwood Road
yhall, Workington
14 4JP

Operator name and address *

Aveny Quarry
Wigton
CA7 4NF

e Address (if different)

s above

Site Address (if different)

stcode

Postcode

rmit No. EPR/JP3290VP

Permit No.

'son Receiving

ne

ature

Date & Time

Duty of Care: Waste Transfer note

L 7426

NCN hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights Keils

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 19.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.40 Tonne

Driver Name: G Dawe

Signature: GD

Date of transfer: 19.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 19.10.22

Duty of Care: Waste Transfer note

L 7425

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Heights / Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [redacted] Signature: T Armstrong Date & Time: 19.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.90 Tonne

Driver Name: C Pattinson

Signature: CP

Date of transfer: 19.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong Aggs Quarry

1 load

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 19.10.22

Duty of Care: Waste Transfer note

L 7424

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Silloth Bay Heights Skells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 19.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.76 Tonne

Driver Name: E Steel

Signature: ES

Date of transfer: 19.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong
Overby Quarry

1 load

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 19.10.22

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11345

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX13 MYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers Gleasons Edgehill Whitehaven
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.8	
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 11.30
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J ARMSTRONG	Driver Print Name	DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11343

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX13 HHJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Gleesons
Rubble - 170107		Artic Load		Edgehill Whitehaven
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.6	
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Spoil

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		Loading Time 7.30 am
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J ARMSTRONG	Driver Print Name DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11344

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX13 HHJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			
Clay - 170504		8 Wheeler Load	/	Phillip Carruthers Gleesons Edgehill Whitehaven
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.7		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 9.18
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J ARMSTRONG	Driver Print Name	DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11346

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX13 HYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	Phillip Carruthers Gleesons Edgehill Whitehaven
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.9		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 2.20
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J ARMSTRONG	Driver Print Name	DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10735

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX64 JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	✓	PHILIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.6	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	OVERBY —	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature
Print Name J ARMSTRONG	Driver Print Name C TEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10736

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX64 JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	✓	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.70	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details DERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name		Driver Print Name	CTEL

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10737

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX64 JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			GLEESON HOMES
Clay - 170504		8 Wheeler Load	/	PHILIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.60	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	QUERBY —	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J. ARMON	Driver Print Name	C. TEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10738

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX64 SYC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.8	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details QUERBY	—

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J. ARMER	Driver Print Name	C. FEE

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12240

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Cumbleos
Clay - 170504		8 Wheeler Load	✓	Ridgehill
Rubble - 170107		Artic Load		Gleeson Site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18.3		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered Time Loading - 0735

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	Overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J Armstrong	Driver Print Name	A Tee

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12241

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			phillip carruthers Edgehill Gleeson site
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.8	
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Time Loading 0930

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	A FOX

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12242

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX14 DXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			Phillip Carruthers
Clay - 170504		8 Wheeler Load	/	Edgehill
Rubble - 170107		Artic Load		Gleeson site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.8	
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Tunnel loading 11 to 5

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S Smith	Driver Signature
Print Name J Armstrong	Driver Print Name A Fle

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12243

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: PX14 5XY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			Phillip Carruthers
Clay - 170504		8 Wheeler Load	/	Edgehill
Rubble - 170107		Artic Load		Gleeson site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	17.5	
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Tome Loading 14:30

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	Overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Miller	Driver Signature	
Print Name	J Addison	Driver Print Name	A Fox

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10055

Waste Carrier Registration Number CBDU70223

Date 19/10/22 Vehicle Reg: KN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTALS
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.10		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details COUERBY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J. ARMSTRONG.	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10056

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: KN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.40		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature BROUGHTON
Print Name J ARMSTRONG	Driver Print Name

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10057

Waste Carrier Registration Number CBDU70223

Date: 19/10/22 Vehicle Reg: KN19KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading IKELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19-90		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRKB3839RK	
Other - provide details OUTFALL	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature STROUGHAIR
Print Name J. ARMSTRONG	Driver Print Name

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10058

Waste Carrier Registration Number CBDU70223

Date: 14/10/22 Vehicle Reg: KN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading RIELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 20.40		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBURDEN		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature BROUGHTON
Print Name J ARMSTRONG.	Driver Print Name

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11347

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX13 MMY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven
Rubble - 170107		Artic Load		gleesons
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.17		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 7.30
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J. Forster	Driver Print Name DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11348

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX13 MMY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven
Rubble - 170107		Artic Load		Gleasons
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.4		
Tarmac - 170302				Time arrived on site		Time left site	
Other Please Specify				Description of Materials Delivered Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 9.30
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J ARMSTRONG	Driver Print Name DAVID Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11349

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX13 MUH

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers Edgehill whitehaven greesons
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.20		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		Loading time 11.55
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	I ARMSTRONG	Driver Print Name	DAVID Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11350

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX13 HYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes	/	Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			Phillip Carruthers Edgehill Whitehaven gleesons
Clay - 170504		8 Wheeler Load	/	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18.9		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		Load time 2.28
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J ARMSTRONG	Driver Print Name	David Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12244

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers Edge Hill Gleeson Site
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarmac - 170302		18.3		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	overby	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Shuttleworth	Driver Signature	
Print Name	J Armstrong	Driver Print Name	A Fox

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12245

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX14 SXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	Phillip Carruthers
Rubble - 170107		Artic Load		Edge Hill
Bricks - 170102				Gleeson Site
Concrete - 170101		Weighbridge Weight Specify 18.5		
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12246

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			Phillip Carruthers
Clay - 170504		8 Wheeler Load	/	Edge Hill
Rubble - 170107		Artic Load		Gleeson Site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.7	
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	Cyerby	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	L S Smith	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12247

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX14 SXV

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			Phillip Carruthers
Clay - 170504		8 Wheeler Load	/	Edge Hill
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18.10		Gleesons Site
Tarmac - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	
Print Name	J Armstrong	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10739

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX64 JHC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19-16	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S MITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	C TEE

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10740

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX64 5YL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	✓	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.5	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	C TEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10741

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: PX64 54L

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESOP HOMES
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		PHILLIP CARRUTHERS
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.5	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	CRAIG

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10742

Waste Carrier Registration Number CBDU70223 Vehicle Reg: PK64 JYC

Date: 2010/22

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address GLEESON HOMES PHILLIP CARRUTHERS
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	—	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.3		Time arrived on site / Time left site
Tarma - 170302				Description of Materials Delivered
Other Please Specify				

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	—

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. SMITH	Driver Signature
Print Name J ARMSTRONG	Driver Print Name C TEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10059

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address ESKDALE ENVROMENTAL
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.3		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details COVE12B4		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SBR	Driver Signature	BROUGHTON
Print Name	S SOMMERVILLE / ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10060

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMETAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		19.6		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERRUN		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	BROUGHIE
Print Name	S Sim & J Armstrong	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10061

Waste Carrier Registration Number CBDU70223

Date: 20/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19t		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVIZIL134	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SSmith J ADAMSON	Driver Signature	BROUGHIE
Print Name	SSmith J ADAMSON	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10062

Waste Carrier Registration Number CBDU70223

Date: 29/01/22 Vehicle Reg: FN19KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTA
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.6		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Sinnett	Driver Signature	BROWNE
Print Name	S Sinnett J Aspinall	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11769

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX13 HYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)			
EWC Codes		Details	
Spoil - 170504	✓		
Clay - 170504		8 Wheeler Load	✓
Rubble - 170107		Artic Load	
Bricks - 170102			
Concrete - 170101		Weighbridge Weight Specify 19t	
Tarma - 170302			
Other Please Specify			

B - Place of loading Edgehill Whitehaven

Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address

Phillip Carruthers
Edgehill Whitehaven
Gleesons

Time arrived on site		Time left site	

Description of Materials Delivered

Loading time 7.12

Section C - Disposal Details - Tick the Permit which applies

Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details Cleverby	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J Armstrong	Driver Print Name David Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11770

Waste Carrier Registration Number CBDU70223

Date: 21 / 10 / 22 Vehicle Reg: PX13 HUY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Philip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven
Rubble - 170107		Artic Load		GJ Leesons
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.20		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		Loading time 9.30
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J ARMSTRO	Driver Print Name	DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11771

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX13 HUY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers Edgehill Whitehaven gleeson
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.5	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		Loading time 11.50
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D Clark
Print Name	J. Armstrong	Driver Print Name	David Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11772

Waste Carrier Registration Number CBDU70223

Date: 21 / 10 / 22 Vehicle Reg: PX13 HHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven
Rubble - 170107		Artic Load		gleesons
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18.9		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		Loading time 2.50
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J. ARMSTRONG	Driver Print Name	David Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10063

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: FN19KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.4		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	BROUGHIR
Print Name	J. ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10064

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		19.5		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERFLOW		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	BROUGHTON
Print Name		Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10065

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: FN19KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		19.4		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVR12134		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	B ROUGHLEY
Print Name	S Smith J ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10066

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address ESKDALE ENVIRMENTAL
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		18.8		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERLAY	

Section D - By signing Section D below I confirm that I have fulfilled ~~my duty to~~ apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SSmith	Driver Signature	J BROUGHTON
Print Name	SSmith J ARMERDING	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE & DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10743

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX64 JYC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.40	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	C TEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10744

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX64 54L

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			GLEESON HOMES
Clay - 170504		8 Wheeler Load	/	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19T		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S - SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	C TEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10745

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PK64 54C

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	—			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.5		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	CTEQ

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10746

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX64 JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	
Rubble - 170107		Artic Load		PHILLIP CARRUTHERS
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		19.3		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details QUERRY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	CTEC

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12248

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edge Hill
Rubble - 170107		Artic Load		Gleesons site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarmac - 170302				Time arrived on site: Time left site
Other Please Specify		18.40		Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	overlay

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Armstrong	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12249

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX14 SXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			phillip carruthers Edgehill Gleesons site
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarmac - 170302		18.70		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	overby	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	
Print Name	J. ARMITAGE	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 12250

Waste Carrier Registration Number CBDU70223

Date: 21/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edge Hill
Rubble - 170107		Artic Load		Pleeson Site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarmac - 170302		18.30		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	Overby	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	
Print Name	J. Armstrong	Driver Print Name	A Fee

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11701

Waste Carrier Registration Number CBDU70223

Date: 21/02/22 Vehicle Reg: PX14 5XJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edge Hill
Rubble - 170107		Artic Load		Gleeson Site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 17.8		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	Overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	A Smith	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	A Tait

G&M LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10747

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: R464JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	✓	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18.6		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	—

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	CTEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10748

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX64 SYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.20		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	C TEC

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10749

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX64 JYC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19-10		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	CTEL

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10750

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX64 5YC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	✓	PHILIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.80	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	CTEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11773

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX13 HHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)			
EWC Codes		Details	
Spoil - 170504	✓		
Clay - 170504		8 Wheeler Load	✓
Rubble - 170107		Artic Load	
Bricks - 170102			
Concrete - 170101		Weighbridge Weight Specify 19t	
Tarma - 170302			
Other Please Specify			

B - Place of loading Edgehill whitehaven

Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address

Phillip Carruthers
Edge hill whitehaven
Gleesons

Time arrived on site	7.20	Time left site	

Description of Materials Delivered

Spoil

Section C - Disposal Details - Tick the Permit which applies

Loading time 7.20

Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. Smith	Driver Signature	D. Clark
Print Name	J ARMSTRONG	Driver Print Name	David Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11774

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX13 HHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Golgehill whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Golgehill Whitehaven
Rubble - 170107		Artic Load		gleesons
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.5		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		Loading time 2.35
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature D. Clark
Print Name J. ARMSTRONG		Driver Print Name DAVID Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11775

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX13 HYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers Edgehill Whitehaven Gleesons
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 20-30		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 11.55
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J ARMSTRONG	Driver Print Name DAVID CLARK

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11776

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX13 HYJ

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven
Rubble - 170107		Artic Load		Gleesons
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.20t	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered: Spoil

Section C - Disposal Details - Tick the Permit which applies		Loading time 2.50
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J. ARMSTRONG	Driver Print Name David Clark

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11702

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX14 5XY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	Phillip Carrolhas
Rubble - 170107		Artic Load		Edgehill
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 17-60		Gleeson site
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	Ovaby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature
Print Name J. ARMSTRONG	Driver Print Name A [illegible]

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11703

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX14 JRY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip Carruthers
Clay - 170504		8 Wheeler Load	✓	Edge Hill
Rubble - 170107		Artic Load		Gleeson Site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18t	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	overlay	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	[signature]	Driver Signature	[signature]
Print Name	J. ARMSTRONG	Driver Print Name	A Fea

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11704

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			
Clay - 170504		8 Wheeler Load	/	Phillip Curwens
Rubble - 170107		Artic Load		Edge Hill
Bricks - 170102				Gleesons Site
Concrete - 170101		Weighbridge Weight Specify	18.80	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	Overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	A FCA

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11705

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: PX14 JXY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			phillip carruthers
Clay - 170504		8 Wheeler Load	✓	Edge Hill
Rubble - 170107		Artic Load		Gleeson site
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		18.30t		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details	overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	A Tag

G&M LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10067

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: FN19KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 19.20		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OV/ER134	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SSMH	Driver Signature	BROUGHIE
Print Name	SSMITH J ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10068

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.70	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERLAY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SSmith	Driver Signature	BROUGHIE
Print Name	SSmith J ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10069

Waste Carrier Registration Number CBDU70223

Date 24/10/22 Vehicle Reg: FN19KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			ESKDALE ENVIROMENTAL
Clay - 170504		8 Wheeler Load	/	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.6	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SSmith	Driver Signature	BROUGHTON
Print Name	S SMITH / ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10070

Waste Carrier Registration Number CBDU70223

Date: 24/10/22 Vehicle Reg: FN19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	/			ESKDALE ENVIRONMENTAL
Clay - 170504		8 Wheeler Load	/	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	19.30	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	SSmith	Driver Signature	BILOUGHIE
Print Name	SSMITH J ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11663

Waste Carrier Registration Number CBDU70223

Date 25/10/22 Vehicle Reg: PX64 5YC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	—			GLEESON HOMES
Clay - 170504		8 Wheeler Load X2	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		19.30
		19.50
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S. SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	CTEW

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11662

Waste Carrier Registration Number CBDU70223

Date: 25/10/22 Vehicle Reg: PX64 JYL

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	—			GLEESON HOMES
Clay - 170504		8 Wheeler Load	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18-7	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	—

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	CTEC

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10071

Waste Carrier Registration Number CBDU70223

Date: 25/10/22 Vehicle Reg: FK.19 KHY.

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Kells
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	Gleeson Homes
Rubble - 170107		Artic Load		Philip Carruthers
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.5	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	✓	overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	P Talbot
Print Name	S. Smith J. ARMSTRONG	Driver Print Name	

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 10072

Waste Carrier Registration Number CBDU70223

Date: 25/10/22 Vehicle Reg: FK 19 KHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Kells
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load x2	✓	Gleeson Homes
Rubble - 170107		Artic Load		Phillip Carruthers.
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		19-10 19.75
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details	✓	Overby

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S Smith	Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	

Du[illegible]f Care: Waste Transfer note

L 7427

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code		Waste Type	EWC code		How transported		Quantity
Soil and Stone	170504		Tiles/ceramics	170103		Loose		
Rubble	170107		Tarmac	170302		8 Wheeler	✓	3
Concrete, brick, etc	170101					4 Wheeler		
Bricks	170102					Grab		
						Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Heights Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Armstrong Signature: Date & Time: 25.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 56.90 Tonne

Driver Name:

Signature:

Date of transfer: 25.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

J. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

1 load
1 load
1 load

Person Receiving

Name:

Signature:

Date & Time: 25.10.22

Duty of Care: Waste Transfer note

L 7430

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. ARMSTRONG Signature: Date & Time: 25.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 16.30 Tonne

Driver Name:

Signature:

Date of transfer: 25.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

J. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 25.10.22

G&M LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11901

Waste Carrier Registration Number CBDU70223

Date: 26/10/22 Vehicle Reg: PX16 KGO

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip CARRUTHERS.
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18-9		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature P Carruthers	Driver Signature MM
Print Name J. ARMSTRONG	Driver Print Name M MURRAY

Delivery / waste transfer note Issue 3 8/202

G&M LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11902

Waste Carrier Registration Number CBDU70223

Date: 26/10/22 Vehicle Reg: PX16KGO

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading GRASSMERE
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip CARRUTHERS
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18-7		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details OVERBY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature P Carruthers	Driver Signature MM
Print Name J. ARMSTRONG	Driver Print Name M MURRAY

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11666

Waste Carrier Registration Number CBDU70223

Date: 26/10/22 Vehicle Reg: BG64 5YC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load X3	—	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
		19.10
Energy Coast Business Park - Beckermet EPRKB3838RE		19.20
		19.00
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S SMITH	Driver Signature	
Name	J. ARMSTRONG	Driver Print Name	C-TEC

Duty of Care: Waste Transfer note

L 7428

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights, Kells, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J ARMSTRONG Signature: Date & Time: 26.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 57.80 Tonne PX13 HYJ

Driver Name: D. Clark

Signature:

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 26.10.22

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Date & Time:

Operator name and address *

Gleeson T Armstrong
Overby Quality

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 26.10.22

*delete as appropriate

Duty of Care: Waste Transfer note

L 7431

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Salt + Stones

Waste Type	EWC code		Waste Type	EWC code	
Soil and Stone	170504	✓	Tiles/ceramics	170103	
Rubble	170107		Tarmac	170302	
Concrete, brick, etc	170101				
Bricks	170102				

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salthaven Bay Phase 4b Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J Armstrong Signature: Date & Time: 26.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 16.30 Tonne

Driver Name: D. Brame

Signature: DB

Date of transfer: 26.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 26.10.22

Duty of Care: Waste Transfer note

L 7432

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code		Waste Type	EWC code	
Soil and Stone	170504	✓	Tiles/ceramics	170103	
Rubble	170107		Tarmac	170302	
Concrete, brick, etc	170101				
Bricks	170102				

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Soil/Stone Bay Heights Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Armstrong Signature: Date & Time: 26.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.40 Tonne

Driver Name: S. Lyon

Signature: SL

Date of transfer: 26.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 26.10.22

..ty of Care: Waste Transfer note

L 7433

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Heights Keekle

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. ARMSTRONG Signature: Date & Time: 26.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.34 Tonne

Driver Name: C Ballen

Signature: CB

Date of transfer: 26.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 26.10.22

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11708

Waste Carrier Registration Number CBDU70223

Date: 27/10/22 Vehicle Reg: PX14 SKM

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			Phillip CARUTHERS
Clay - 170504		8 Wheeler Load	✓	
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify	18.2t	
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies	
Energy Coast Business Park - Beckermet EPRKB3838RE	
Whitehaven Golf Club - EPRBB3839RK	
Other - provide details DIVERSY	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	Driver Signature MM
Print Name J. ARMSTRONG	Driver Print Name M MURRAY

IM LAWSON LIMITED

HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11669

Waste Carrier Registration Number CBDU70223

Date: 27/10/22 Vehicle Reg: PX64 JYC

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading KELLS
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			GLEESON HOMES
Clay - 170504		8 Wheeler Load	✓	PHILLIP CARRUTHERS
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		18.8t		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details OVERBY	—	

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature	S SMITH	Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	C TEW

M LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11315

Waste Carrier Registration Number CBDU70223

Date: 22/10/22 Vehicle Reg: PX13MVH

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading WHITEHAVEN
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load X 3	✓	GLEESON HOMES
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered SPOIL

Section C - Disposal Details - Tick the Permit which applies		
		18.20
Energy Coast Business Park - Beckermet EPRKB3838RE		18.30
		18.30
Whitehaven Golf Club - EPRBB3839RK		COUGHBY
Other - provide details		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J. ARMSTRONG	Driver Print Name	SIMON

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11786

Waste Carrier Registration Number CBDU70223

Date: 27/10/22 Vehicle Reg: PX13 HHY

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading Edgehill Whitehaven
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	Edgehill Whitehaven Phillip Carruthers gleesons
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify		
Tarma - 170302		18.9t		Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered

Section C - Disposal Details - Tick the Permit which applies		307 AM
Energy Coast Business Park - Beckermet EPRKB3838RE		
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details Overby		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature S. Smith	Driver Signature D. Clark
Print Name J ARMSTRONG	Driver Print Name DAVID CLARK

Duty of Care: Waste Transfer note

L 7434

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	7
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Sellafield Bus Hershead Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Armstrong Signature: Date & Time: 27.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.30 Tonne

Driver Name: S. Lyon

Signature: SL

Date of transfer: 27.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong
overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 27.10.22

Duty of Care: Waste Transfer note

L 7435

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	1	✓
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Height Hall

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Armstrong Signature: Date & Time: 27.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.00 Tonne

Driver Name: J. Clarke

Signature: J C

Date of transfer: 27.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 27.10.22

Duty of Care: Waste Transfer note

L 7436

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	2
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights
Kell,
Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. ARMSTRONG Signature: Date & Time: 27.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 37.60 Tonne

Driver Name: D. Morgan

Signature: DM

Date of transfer: 27.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

T. Armstrong
Overby Quarry

Site Address (if different)

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 27.10.22

Duty of Care: Waste Transfer note

L 7429

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil + stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	3
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights Phase 1 Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Armstrong Signature: Date & Time: 28.10.22

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 58.10 Tonne PX13 MYJ

Driver Name: D. Clark

Signature:

Date of transfer: 28.10.22

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

T. Armstrong
Ovus Quarry

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 28.10.22

G&AM LAWSON LIMITED

PLANT HIRE DEMOLITION HAULAGE DRAINAGE

Delivery / Waste Transfer Note F 11316

Waste Carrier Registration Number CBDU70223

Date: 28/10/22 (28) Vehicle Reg: PX18 HVH

WHINBANK FARM, DISTINGTON, WORKINGTON, CUMBRIA, CA14 4QH | Tel: (01946) 830305 | www.lawsonsplanthire.co.uk

A - Waste Material Only (including EWC Code)				B - Place of loading WHITEHAVEN
EWC Codes		Details		Current Holder of Waste - Name, Address and SIC Code Or Customer Name and Delivery Address
Spoil - 170504	✓			
Clay - 170504		8 Wheeler Load	✓	GLEESON HOMES
Rubble - 170107		Artic Load		
Bricks - 170102				
Concrete - 170101		Weighbridge Weight Specify 18.20		
Tarma - 170302				Time arrived on site / Time left site
Other Please Specify				Description of Materials Delivered SPOIL

Section C - Disposal Details - Tick the Permit which applies		
Energy Coast Business Park - Beckermet EPRKB3838RE		
		COUGRBY
Whitehaven Golf Club - EPRBB3839RK		
Other - provide details		

Section D - By signing Section D below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England & Wales) Regulations 2011

Customer Signature		Driver Signature	
Print Name	J ARMSTRONG	Driver Print Name	SINGH

Kells to Overby Oct 22

10.10.22	282293	19.9	
11334	282289	19.4	78.60
PX13 HYY	282284	20.1	
	282276	19.2	
10.10.22	282292	19	
10726	282287	19.7	77.20
PX64 JYC	282282	19.36	
	282269	19.2	
10.10.22	282283	19.2	
L7208	282273	19.04	38.24
CN15 OHY			
10.10.22	282270	18.5	
L7410			
RX67 MKE			
11.10.22	282523	18.9	
L4939	282514	18.4	56.70
YJ66 EOF	282503	19.4	
11.10.22	282506	18	
L7409	282525	18.14	
CN15 OHY			
11.10.22	282524	19.5	
11337			
PX13 HYY			
11.10.22	282529	18.2	
L7363	282515	18.3	55.3
PX16 KHM	282505	18.8	
12.10.22			
L4941	282585	18.7	
YJ66 EOF	282571	19.3	94.7
	282553	18.7	
	282541	19.3	

12.10.22 L5016 RX68 YRS	282586 282570 282555 282543	15.9 15.3 14.6 15.2	61
12.10.22 L6173 RX68 YFA	282565	18.9	
13.10.22 L4718 YJ66 EOF	282634 282622 282611 282599	17.3 17.7 17.5 17.5	70
13.10.22 L7211 CN15 OHY	282600	18.84	
13.10.22 L7292 RK70 FRR	282633 282621 282607 282598	17.9 18.7 18.3 18.2	73.10
13.10.22 L6303 RX67 MJY	282617 282630 282609 282594	18.7 18.8 19.3 18.9	75.7
13.10.22 L6451 RX67 MKE	282615 282627	19.3 20	39.3
13.10.22 L6217 RK22 FPY	282632 282619 282610 282595	19.9 18.8 18.9 18.8	76.4
14.10.22 L4720 YJ66 EOF	282651 282657 282664 282642	18.1 18.8 17.9 18.3	73.10

14.10.22	282666	18.74	
L7213	282659	19.24	75.96
CN15 OHY	282653	19.24	
	282645	18.74	
14.10.22	282665	18.5	
L7294	282658	18.9	74.2
RK70 FRR	282649	17.9	
	282643	18.9	
14.10.22	282661	18.8	
L6305	282655	19.1	75.3
RX67 MJY	282646	18.8	
	282640	18.6	
14.10.22	282647	18.5	
L6220	282641	19.3	75.8
RK22 FPY	282656	19.1	
	282662	18.9	
17.10.22	282703	18.5	
L7420			
RK22 FPY			
17.10.22	282701	18.8	
L7419			
RX67 MJY			
17.10.22	282705	19	
7418	282691	19.1	57.20
RK71 FYY	282672	19.1	
17.10.22	282688	19.2	
L7214	282674	18.3	55.84
CN15 OHY	282702	18.34	
17.10.22	282710	18.1	
L4721	282697	17.9	55.8
YJ66 EOF	282683	19.8	

17.10.22	282684	17.8
L7297	282670	18.9
RK70 FRR	282696	18
	282709	17.3

72

18.10.22	282746	19.9
L7423		
RX68 YFA		

18.10.22	282747	19
L7422		
RK22 FPY		

18.10.22	282744	18.9
L7421		
RX67 MJY		

18.10.22	282720	18.74
L7216		
CN15 OHY		

18.10.22	282716	18.5
L4722		
YJ66 EOF		

19.10.22	282799	19.4
L7426		
RX68 YFA		

19.10.22	282802	18.9
L7425		
RK22 FPY		

19.10.22	282798	18.7
L7424		
RX67 MJY		

19.10.22	282757	19.8
F11345	282770	18.6
PX13 HYJ	282780	19.7
	282796	19.9

19.10.22	282800	19.6
F10735	282784	18.7
PX64 JYC	282760	19.6
	282774	18.8
19.10.22	282797	18.3
F12240	282773	19.8
PX14 JXY	282759	18.8
	282783	17.5
19.10.22	282801	19.1
F10055	282785	19.9
KN19 KHY	282776	19.9
	282761	20.4
20.10.22	282846	19.1
F11347	282830	19.4
PX13 HYY	282822	19.2
	282811	18.9
20.10.22	282810	18.3
F12244	282821	18.1
PX14 JXY	282832	18.1
	282849	18.7
20.10.22	282848	19.16
F10739	282831	19.5
PX64 JYC	282823	19.5
	282813	19.3
20.10.22	282833	19.3
F10059	282820	19.6
FN19 KHY	282812	19
	282844	19.6
21.10.22	282860	19
F11769	282874	19.2
PX13 HYY	282890	19.5
	282904	18.9

21.10.22	282888	19.4
F10063	282875	19.5
FN19 KHY	282864	19.4
	282901	18.8
21.10.22	282903	19.4
F10743	282862	19
PX64 JYC	282877	19.5
	282891	19.3
21.10.22	282861	18.4
F12248	282876	18.7
PX14 JXY	282889	18.3
	282902	17.8
24.10.22	282912	18.6
F10747	282930	19.2
PX64 JYC	282948	19.1
	282965	18.8
24.10.22	282963	19
F11773	282947	19.5
PX13 HYY	282929	20.3
	282910	19.2
24.10.22	282960	17.6
F11702	282946	18
PX14 JXY	282931	18.8
	282913	18.3
24.10.22	282909	19.2
F10067	282926	19.7
FN19 KHY	282944	19.6
	282959	19.3
25.10.22	282973	18.7
F11662/3	282987	19.3
PX64 JYC	284507	19.5
25.10.22	284506	18.5
F10071	282988	19.1
FK19 KHY	282974	19.7

25.10.22 L7427 PX13 HYY	284511 282976 282991	18.5 19.3 19.1
25.10.22 L7430 RX68 YRS	282999	16.3
26.10.22 F11901 PX16 KGO	284547 284531	18.9 18.7
26.10.22 F11666 PX64 JYC	284523 284541 284005	19.1 19.2 19
26.10.22 L7428 PX13 HYJ	284544 284006 284528	19.4 19 19.4
26.10.22 L7431 RX68 YRS	284529	16.3
26.10.22 L7432 RK70 FRR	284010	18.4
26.10.22 L7433 CN15 OHY	284004	18.34
27.10.22 F11708 PX14JXY	284013	18.2
27.10.22 F11669 PX64 JYC	284012	18.8

27.10.22	284027	18.2	
F11315	284023	18.3	
PX13 HYH	284016	18.3	
27.10.22	284015	18.9	✓
F11786			
27.10.22	284029	18.3	✓
L7434			
RK70 FRR			
27.10.22	284030	18	✓
L7435			
YJ66 EOF			
27.10.22	284021	19	
L7436	284018	19	✓
RX67 Mke			
28.10.22	284022	19	
L7429	284026	19.7	
PX13 HYJ	284032	19.4	✓
28.10.22	284033	18.2	✓
F11316			
PX13 HYH			

	Oct-22	3570.52
	Sep-22	403.3 - invd 12.10.22
Total		3973.82

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281825

WEIGHTS

ORDER No

G · 32·
T · 13·3
N · 18·7

Place of Loading	Date and Time of Leaving Place of Loading	
	Date 15-8-22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66ECS	Carruthers

Name of Customer..... Eskdale Environmental

Consignee..... Gleeson Homes Wells.

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... Eighteen Tonnes 70c

of..... Sand and Stones

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281815

WEIGHTS

ORDER No [redacted]

G - ~~32.4~~ 31.6

T - 13.3

N - 18.3

Place of Loading	Date and Time of Leaving Place of Loading	
	Date: 15-8-22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
YJ66EOF	Carruthers	

Name of Customer: Eskdale Environmental

Consignee: Gleeson Homes
Hells

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

Eighteen Tonnes 20c

of Sand and Stones

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281810

WEIGHTS

ORDER No

		G - 32.4
Place of Loading	Date and Time of Leaving Place of Loading	
	Date: 15-8-22 / Time	T - 13.3
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
YJ66 EOF	Carruthers	N 19.1

Name of Customer: Eskdale Environmental

Consignee: Gleeson Homes
Kells

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

Nineteen Tonnes 100

of Sand and Stones

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281804

WEIGHTS

G - 31·7
T - 13·3
N - 18·4

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date 15-8-22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MSY	Carruthers

Name of Customer..... Eskdale Environmental

Consignee..... Gleeson homes
..... Newton

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... Eighteen ..... Tonnes ..... 40C .....

of..... Sand and Stone .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281798

WEIGHTS

31·30
12·70
18·60

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 12/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
EY11 NCC	CARRUTHERS	

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS – OOCRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 600

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281793

WEIGHTS

31·90
12·70
19·20

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 12/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
EY11 NCC	CARRUTHERS	

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – OOCRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281791

WEIGHTS

ORDER No

31.20
12.70
18.50

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
EY11 NCC	CARRUTHERS

Name of Customer: ESKDALE ENVIROMENTAL

Consignee: KELLS – OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281785

WEIGHTS

ORDER No

31.80
12.70
19.10

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
EY11 NCC	CARRUTHERS

Name of Customer: ESKDALE ENVIROMENTAL

Consignee: KELLS – OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 100

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281729

WEIGHTS

ORDER No

31·70
13·20
18·50

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX67 MKE	CARRUTHERS	

Name of Customer ESKDALE ENVIRONMENTAL

Consignee
Kells - Ouglby

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 500
of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281734

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX67 MKE	CARRUTHERS

32.10
13.20
18.90

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 900 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281740

WEIGHTS

ORDER No

31·90
13·20
18·70

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OXR34

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281744

WEIGHTS

31.90
13.20
18.70

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX67 MKE	CARRUTHERS	

Name of Customer ESKDALE ENVIROMENTAL

Consignee
KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 7000

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281726

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	9/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CAROTHERS

31·10
12·80
18·30

Name of Customer... ESKDALE ENVIRONMENTAL

Consignee...
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 300

of... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281728

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	9/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

31·30
12·80
18·50

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281735

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	9/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX70 FRR	CARRUTHERS

31·20
12·80
18·40

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OOCR34

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281723

WEIGHTS

ORDER No

32·50
13·30
19·20

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 8/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
R×67 MJY	CARRUTHERS	

Name of Customer ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee
KELLS - OVERBY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 2 00

VEHICLE NO

of SOIL & STONE

GRADE

Situation of nearest available weighing instrument to place where vehicle was loaded.

DELIVERED PRICE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281704

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/6/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32·00
13·30
18·70

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OUCH

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281715

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32.00
13.30
18.70

Name of Customer ESKDALE ENVIRONMENTAL

Consignee
KELLS - OOERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281719

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

31·50
13·30
18·20

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - DERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN ..... Tonnes 200

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281707

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31·80
18·60

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OUGHY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 600

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281716

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

32·10
13·20
18·90

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 900

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281720

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31·80
13·20
18·60

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee KELLS - OVERBY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 6000

of SOIL & STONE

VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281724

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31·40
13·20
18·20

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – OUGRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281709

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CHRISTIANS

31.00
12.80
18.20

Name of Customer ESKDALE ENVIRONMENTAL — CUSTOMER NO

Consignee KELLS – OOLRBY — DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE — VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded. — GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:

(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281717

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 8/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

31-10
12-80
18-30

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 300 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281721

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

30·50
12·80
17·70

Name of Customer ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee KELLS - QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

SEVENTEEN Tonnes 700

of 1 SOIL & STONE

VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281815

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading: Date	Time
	15-8-22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle): YJ66ECS

Name of person in charge of vehicle: Carruthers

Name of Customer: Eskdale Environmental

Consignee: Gleeson Homes Wells

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc: Eighteen Tonnes Sand and Stones

Tonnes 18

Description of nearest available weighing instrument to place where vehicle was loaded.

I/We certify that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
Dated the.....day of..... 20..... Driver's Signature.....
(A) or (B) delete the words inapplicable
SIGNATURE OF CONSIGNEE..... PRINT NAME.....

TEED LIGNITE FREE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

ALL GOODS CARRIED UNDER RHA CONDITIONS.

6-32
1-13
N-18

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281759

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 10/6/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ68 EOF	CARRUTHERS

32.10
13.30
18.80

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – OUGHBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 800

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281745

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
~~[illegible]~~	Date 10/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX67 MJY	CARRUTHERS	

32-30
13-30
19-00

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – QUEBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

N. INTEEN Tonnes

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 10 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Wirkington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281752

WEIGHTS

32.20
13.30
18.90

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 10/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
R467 MJY	CHRISTIES	

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 900

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 10 day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	
DEPT. CODE	
DELIVERY CODE	
VEHICLE NO	
GRADE	
DELIVERED PRICE	
HAULAGE RATE	

SAND NOT GUARANTEED LIGNITE FREE

TAAG 12

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281757

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 10/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX68 MJY	CARRUTHERS

31.70
13.30
18.40

Name of Customer ESKDALE ENVIRONMENTAL

Consignee SOIL & STONE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281747

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 10/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK70 FRR	CARRUTHERS	

31·00
12·80
18·20

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
..... KELLS - QUEUE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes 2 00

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 10 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281749

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	10/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

31.40
12.80
18.60

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 600 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 10 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281754

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	10/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX70 FRR	CALLUM HEGGS

31.50
12.80
18.70

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
..... KELLS - DOORBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 700 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 10 Day of..... AUG 20..... 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281761

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 10/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK70 FRR	CARRUTHERS	

30·70
12·80
17·90

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - DERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

SEVENTEEN Tonnes 900

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 10 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281712

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
CN15 OHY	CARRUTHERS

31·00
13·26
17·74

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS - OLDERBY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

SEVENTEEN Tonnes 740

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281718

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
CN15 OHY	CARRUTHERS

31-48
13-26
18-22

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OVERFLOW

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 22.0
of..... SOIL → STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 8 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281722

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	8/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
CN 15 OHY	CURRUTHERS

31.60
13.26
18.34

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 340

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281731

WEIGHTS

ORDER No

31·50
13·30
18·20

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OCCRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
..... EIGHTEEN ..... Tonnes ..... 2000 .....
of..... SOIL > STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	DEPT. CODE	DELIVERY CODE	VEHICLE NO	GRADE	DELIVERED PRICE	HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281736

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	9/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 COF	CARRUTHERS

31.90
13.30
18.60

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - QUERY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN ..... Tonnes 600
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of Aug 20 22 Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281742

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	9/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CALRUTHERS

31.40
13.30
18.10

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN ..... Tonnes 100
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 9 Day of..... AUG 20..... 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281727

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time 32-30 / 13-30 / 19.00
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
Y566 EOF	CARRUTHERS	

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	DEPT. CODE	DELIVERY CODE	VEHICLE NO	GRADE	DELIVERED PRICE	HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281725

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 9/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CAMERON HUGHES

32.20
13.20
19.00

Name of Customer ECKDALE ENVIRONMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes —

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 9 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281784

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 12/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

31.00
12.80
18.20

Name of Customer ESKDALE ENVIRONMENTAL

Consignee
KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281789

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX70 FRR	CARRUTHERS

31.20
12.80
18.40

Name of Customer ESKDALE ENVIRONMENTAL

Consignee
KELLS – OGRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281796

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/27	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

31·10
12·80
18·30

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS - OUGRBY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 3000

VEHICLE NO

of SOIL & STONE

GRADE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281799

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK71 FYY	CARRUTHERS

31.20
12.80
18.40

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OGLEBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN ..... Tonnes 2400
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281792

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31.40
13.30
18.10

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OCRB4

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN Tonnes 100

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281797

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
Y J66 EOF	CARRUTHERS

31.50
13.30
18.20

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS – DERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN Tonnes 200

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 12 Day of..... AUG 20..... 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281786

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31.30
13.30
16.00

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS – QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE 54

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 12 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281787

WEIGHTS

32·00
13·30
18·70

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	12/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX16 KHM	CARRUTHERS

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281770

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 COF	CARRUTHERS

31.50
13.30
18.20

Name of Customer ESKDALE ENVIROMENTAL

Consignee
KELLS - OUGRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 11 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281767

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 11/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

32.40
13.30
19.10

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - OGREBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN Tonnes 100

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 11 Day of..... AUG 20..... 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281775

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31·80
13·30
18·50

Name of Customer ESKDALE ENVIROMENTAL

Consignee
KELLS - OOCERY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 11 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281780

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31.10
13.30
17.80

Name of Customer..... EDEN DALE ENVIROMENTAL

CUSTOMER NO

Consignee.....
..... KELLS - QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... SEVENTEEN ..... Tonnes ..... 800 .....

VEHICLE NO

of..... SOIL & STONE .....

TRADE

Situation of nearest available weighing instrument to place where vehicle was lo

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in ' described, which sand or ballast is being conveyed in pursuance of:

(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 11 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

SAND NOT GUARANTEED LIGNITE FREE

AI

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281768

WEIGHTS

33.10
13.30
19.80

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX16 KHM	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OCCRA

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN ..... Tonnes ..... 800 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 11 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281772

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 11/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
PX16 KHM	CHRISTMAS	

32·10
13·30
18·80

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN ..... Tonnes 600

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 11 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281778

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PK16 KHM	CARRUTHERS

31·50
13·30
18·20

Name of Customer ESKDALE ENVIRONMENTAL

Consignee
KELLS - OUGHTERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281766

WEIGHTS

ORDER No

30·90
12·80
18·10

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 100 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 11 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281769

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 11/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK70 FRR	CARRUTHERS	

31.20
12.80
18.40

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 11 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281774

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 11/5/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK70 FRR	CARRUTHERS	

31.10
12.80
18.30

Name of Customer..... ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee.....
KELLS - QUERRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN ..... Tonnes 3000

of..... SOIL & STONE

VEHICLE NO

GRADE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281779

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 11/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK70 FRR	CARRUTHERS	

31.80
12.80
19.00

Name of Customer..... CSKOALE ENVIROMENTAL

Consignee.....
..... KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINTEEN ..... Tonnes .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281746

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	10/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31·70
13·30
18·40

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - COERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SAND & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 10 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281748

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	10/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31.40
13.30
18.10

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - DERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 100
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 10 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281753

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	10/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

30.00
13.30
17.70

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OUCH

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

SEVENTEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 10 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281572

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX67 MKE	CARRUTHERS	

32.00
13.20
18.80

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 800

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 2 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281582

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31.90
13.20
18.70

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS - OVERBY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 700
of SOIL & STONE

VEHICLE NO

GRADE

Situation of nearest available weighing instrument to place where vehicle was loaded.

DELIVERED PRICE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 2 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281573

WEIGHTS

ORDER No

32·10
12·80
19·30

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
R+68 YFA	CARRUTHERS

Name of Customer ESKDALE ENVIROMNTAL

Consignee
KELLS – QUERY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 300

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 2 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	
DEPT. CODE	
DELIVERY CODE	
VEHICLE NO	
GRADE	
DELIVERED PRICE	
HAULAGE RATE	

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281583

WEIGHTS

ORDER No

31·70
12·80
18·90

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX68 YFA	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OJCRB4

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN ..... Tonnes 900

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 2 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281594

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX 68 YFA	CARRUTHERS

31.70
12.80
18.90

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 900

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 2 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281537

WEIGHTS

ORDER No

31·26
13·26
18·00

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
CN15 OHY	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..1..... Day of..July..... 20..22..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281519

WEIGHTS

ORDER No

31.74
13.26
18.48

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
CN15 OHY	CARRUTHERS

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS — OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 480

of SOIL → STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281551

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
CN15 OHY	CARRUTHERS

31.800
13.260
18.540

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 540

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281507

WEIGHTS

ORDER No

31·80
13·30
18·50

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
Y866 EOF	CARRUTHERS	

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OLDBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281521

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
YJ66 EOF	CARRUTHERS

31·50
13·30
18·20

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281536

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	11/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
NJ66 EOF	CARRUTHERS

31.90
13.30
18.60

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 600

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281549

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
YJ66 EOF	CARRUTHERS	

31.40
13.30
18.10

Name of Customer ESKDALE ENVIRONMENTAL — CUSTOMER NO

Consignee KELLS - OUGHTY — DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 100 — VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded. — GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 1 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281513

WEIGHTS

ORDER No

30·80
12·80
18·00

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS – QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of July 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281526

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK70 FRR	CARRUTHERS

31·10
12·80
18·30

Name of Customer ESKDALE ENVIROMENTAL

Consignee
KELLS - QUERY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 300
of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281539

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK10 FAR	CHARLTHELS	

30.80
12.80
18.00

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS — OLCERY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281552

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	18/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK 70 FRR	CARRUTHERS

31·14
12·80
18·34

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – OUERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 340

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 681 14

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281514

WEIGHTS

ORDER No

31.90
13.30
18.60

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 600

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

TOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Rd Flimby,
MARYPORT Cumbria, CA15 8RY
Tel: (01900) 81

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281541

WEIGHTS

ORDER No

Place of loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

31.90
13.30
18.60

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OUGLBY SOIL & STONE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 6000

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which said or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281554

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
R x 67 MSY	CARRUTHERS

32.10
13.30
18.80

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OUCRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 8000 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 1 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Rd, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 6311

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281530

WEIGHTS

ORDER NO

32.10
13.30
18.80

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time

Brief description of vehicle (Reg No will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 800

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	DEPT. CODE	DELIVERY CODE	VEHICLE NO	GRADE	DELIVERED PRICE	HAULAGE RATE
					74.	

SAND NOT GUARANTEED LIGNITE FREE

TAAG 12

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281517

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX67 MKE	CARRUTHERS

31·60
13·20
18·40

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281531

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	1/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX67 MKE	CARRUTHERS

31·70
13·20
18·50

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:

(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281553

WEIGHTS

32.00
13.20
18.80

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 1/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX67 MKE	CARRUTHERS

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OUCH

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 8.00

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 1 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281542

WEIGHTS

32·00
13·20
18·80

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 11/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX67 MKE	CARRUTHERS

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 800

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281660

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time 32-20 / 13-20 / 19-00

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS – OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN ..... Tonnes .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 4 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	
DEPT. CODE	–
DELIVERY CODE	
VEHICLE NO	
GRADE	
DELIVERED PRICE	
HAULAGE RATE	

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281674

WEIGHTS

31.90
13.30
18.60

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
..... ELEVENTEEN ..... Tonnes 600
of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281664

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

31.70
13.30
18.40

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 400
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281654

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
R×67 MJY	CHRISTOPHERS	

31.90
13.30
18.60

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS - OVERBY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 600
of SOIL & STONE

VEHICLE NO

GRADE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

DELIVERED PRICE

HAULAGE RATE

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281647

WEIGHTS

ORDER No

30·80
13·30
17·50

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CHERRYHOLES

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - OVER34

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

SEVENTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of July 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281642

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32.00
13.30
18.70

Name of Customer..... ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee.....
KELLS - OULTON

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

VEHICLE NO

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... 4 Day of..... AUG 20..... 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281640

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX68 YFA	CARRUTHERS

32.20
12.80
19.40

Name of Customer ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee
KELLS – QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

WINTER Tonnes 400

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281645

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX68 YFA	CHRISTICES

31.60
12.80
18.80

Name of Customer ESKDALE ENVIROMENTAL

Consignee
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 800
of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281653

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX68 YFA	CARRUTHERS

31·60
12·80
18·80

Name of Customer ESKDALE ENVIRONMENTAL — CUSTOMER NO

Consignee KELLS - QUERRY — DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 800 — VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded. — GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of AUG 20 22 Driver's Signature.....

DELIVERED PRICE

HAULAGE RATE

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281663

WEIGHTS

ORDER No

31.90
12.80
19.10

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK68 YFA	CARRUTHERS

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUCRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 100

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281672

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX68 VFA	CARRUTHERS	

31.70
12.80
18.90

Name of Customer..... ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee.....
KELLS - QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN Tonnes 900

of..... SOIL & STONE

VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281602

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

32·20
12·80
19·40

Name of Customer..... ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee.....
KELLS - OUGR34

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINTEEN ..... Tonnes 400

VEHICLE NO

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... 3 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281607

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	3/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31.94
12.80
19.14

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OUCHBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 140

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:

(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281616

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	3/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31.70
12.80
18.90

Name of Customer..... ESKDALE ENVIROMCUTAL

Consignee.....
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 900
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281623

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK22 FPY	CHRISTMERS	

32·10
12·80
19·30

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 300

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281633

WEIGHTS

ORDER No

32.10
12-80
19.30

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
Rt 22 FPY	CARRUTHERS

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 300

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of ..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 6811 4

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281603

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX67 MJY	CARRUTHERS	

32.40
13.30
19.10

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee.....
KELLS - QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 100

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 3 Day of FEB 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281605

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	3/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32.70
13.30
19.40

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS - QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINTEEN Tonnes 400

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281615

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32.70
13.30
19.40

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINTEEN ..... Tonnes ..... 400 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 3 ..... Day of..... Aug ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	
DEPT. CODE	
DELIVERY CODE	
VEHICLE NO	
GRADE	
DELIVERED PRICE	
HAULAGE RATE	

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Rd, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel (01900) 6[illegible]4

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281622

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK 67 MJY	CASRUTHERS	

32.30
13.30
19.00

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee KELLS - OOCAST

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NOMINATED Tonnes

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281632

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	3/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

31·80
13·30
18·50

Name of Customer.....ESKDALE ENVIROMENTAL

Consignee.....
KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of.....SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE 15.40

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281606

WEIGHTS

ORDER No

31.80
13.20
18.60

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CHRISTMERS

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee
KELLS - OUGHTY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 600

VEHICLE NO

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281624

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	3/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31·60
13·20
18·40

Name of Customer ESKDALE ENVIRONMENTAL

Consignee
KELLS - DOGBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 1600

of SAND & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281614

WEIGHTS

31.90
13.20
18.70

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX67 MKE	CARRUTHERS	

Name of Customer..... ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee.....
..... KELLS - QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 700 .....

VEHICLE NO

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281601

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK67 MKE	CARRUTHERS

31.80
13.20
18.60

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee KELLS - OUCBY4

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 600

of SOIL & STONE

VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281611

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX68 YFA	CARRUTHERS	

33.40
12.80
20.60

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
..... KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... TWENTY ..... Tonnes ..... 600 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281600

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RX68 YFA	CAMERUTHERS	

32·50
12·80
19·70

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS – QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 3 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281619

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	3/8/22	
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
R×68 YFA	CATHRUTHERS	

31.40
12.80
18.60

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes 6000

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 3 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281630

WEIGHTS

31·50
12·80
18·70

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/12	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
Rx 68 YFA	CARRUTHER

Name of Customer.... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OUGRAY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281639

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 3/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX68 YFA	CAERUTHERS

31.90
12.80
19.10

Name of Customer..... ESKDALE ENVIRONMENTAL

CUSTOMER NO

Consignee.....
..... KELLS – QUARRY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN ..... Tonnes ..... 100 .....

VEHICLE NO

of..... SOIL & STONE .....

GRADE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... 3 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281566

WEIGHTS

31.80
12.80
19.00

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS – OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... D.W.TEED ..... Tonnes .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 2 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281574

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FDY	CARRUTHERS

31·70
12·80
18·90

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELL - OUGHY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 900

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 2 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281596

WEIGHTS

32.00
12.80
19.20

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - OUGRBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINTEEN ..... Tonnes 200

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281586

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31·50
12·80
18·70

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - DUGBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 2 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281590

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32.10
13.30
18.80

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - OUTBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
..... EIGHTEEN ..... Tonnes ..... 800 .....
of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 2 ..... Day of..... Aug ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281561

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX64 MJY	CARRUTHERS

31.80
13.30
18.50

Name of Customer ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee KELLS

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this 2 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281571

WEIGHTS

ORDER No

32·00
13·30
18·70

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 2/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281581

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

31·80
13·30
18·50

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 500

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281562

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	2/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31.90
13.20
18.70

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 700

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281683

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31·80
12·80
19·00

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
..... KELLS — OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN ..... Tonnes .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281686

WEIGHTS

ORDER No

31·80
12·80
19·00

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPH	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINTEEN ..... Tonnes .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 5 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281693

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX22 FPY	CARRUTHERS

31.60
12.80
18.80

Name of Customer..... CSKOALL ENVIRONMENTAL

Consignee.....
KELLS - QUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 800 .....

of..... SOIL + STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 5 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281679

WEIGHTS

ORDER No

32.00
12.80
19.20

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 5/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS - OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN ..... Tonnes ..... 2.00 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281678

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MJY	CARRUTHERS

32.10
13.30
18.80

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OUGRM

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 8.00 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281682

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MTJ4	CARRUTHERS

31.30
13.30
18.00

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OOCR35

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes —

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281685

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 5/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
PX67 MJY	CHRISTHCES	

32.10
13.30
18.80

Name of Customer ESKDALE ENVIRONMENTAL

Consignee KELLS - OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 800

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 5 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

SAND NOT GUARANTEED LIGNITE FREE

TAAG 12

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281692

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PX67 MJY	CARRUTHERS

31·50
13·30
18·20

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - COCKERMOUTH

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 200

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:

(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 5 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281680

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31·80
13·20
18·60

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OUERRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN Tonnes 600

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 5 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281690

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

31.60
13.20
18.40

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - 000234

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 400

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 5 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281676

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	5/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RX67 MKE	CARRUTHERS

32·20
13·20
19·00

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINETEEN Tonnes —

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 5 Day of Aug 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281687

WEIGHTS

31.00
13.20
17.80

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 5/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
Rx67 MKE	CARRUTHERS	

Name of Customer..... ESKDALE ENVIROMENTAL — CUSTOMER NO

Consignee..... KELLS - OUGROY — DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... SEVENTEEN Tonnes 800

of..... SOIL & STONE — VEHICLE NO

Situation of nearest available weighing instrument to place where vehicle was loaded. — GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281649

WEIGHTS

32.00
13.30
18.70

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
PK16 KHM	CARRUTHERS

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - DERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
EIGHTEEN Tonnes 700
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281659

WEIGHTS

ORDER No

31·40
13·30
18·10

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/5/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
PX16 KHM	CARRUTHERS	

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS – OVERBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 100

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of;
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281670

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK16 KHM	CARRUTHERS	

31-10
13.30
17.80

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - DUCBY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... SEVENTEEN Tonnes 8.00

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	DEPT. CODE	DELIVERY CODE	VEHICLE NO	GRADE	DELIVERED PRICE	HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281646

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31·94
12·80
19·14

Name of Customer ESKDALE ENVIROMENTAL

Consignee KELL - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

NINTEEN Tonnes 140

of SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this 4 Day of AUG 20 22 Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281641

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31.70
12.80
18.90

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee.....
KELLS – OUGHTY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

EIGHTEEN Tonnes 900

of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CUSTOMER NO

DEPT. CODE

DELIVERY CODE

VEHICLE NO

GRADE

DELIVERED PRICE

HAULAGE RATE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... Day of..... 20..... Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281655

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
	Date	Time
KELLS	4/8/22	

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31·60
12·80
18·80

Name of Customer..... ESKDALE ENVIRONMENTAL

Consignee..... KELLS - OUGHTY

..... SOIL & STONE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes ..... 800 .....

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 4 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281665

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK 22 FPY	CARRUTHERS

31.80
12.80
19.00

Name of Customer..... ESKDALE ENVIROMENTAL

CUSTOMER NO

Consignee.....
KELLS – OUGHTY

DEPT. CODE

DELIVERY CODE

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... NINETEEN ..... Tonnes .....

VEHICLE NO

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

GRADE

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

DELIVERED PRICE

Signed.....
(A) or (B) delete the words inapplicable

HAULAGE RATE

Dated this..... 4 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281675

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time

Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle
RK22 FPY	CARRUTHERS

31.50
12.80
18.70

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
..... KELLS - QUARRY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc
..... EIGHTEEN ..... Tonnes 700
of..... SOIL & STONE

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 4 ..... Day of..... AUG ..... 20..... 22 .....Driver's Signature.....

SIGNED..... PRINT NAME.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO
DEPT. CODE
DELIVERY CODE
VEHICLE NO
GRADE
DELIVERED PRICE
HAULAGE RATE

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

THOMAS ARMSTRONG (AGGREGATES) LIMITED

Workington Road, Flimby,
MARYPORT, Cumbria, CA15 8RY
Tel: (01900) 68114

PROOF OF DELIVERY CONVEYANCE NOTE

For Sand and other Ballast Weights and Measures Act 1963

Ticket No 0281673

WEIGHTS

ORDER No

Place of Loading	Date and Time of Leaving Place of Loading	
KELLS	Date 4/8/22	Time
Brief description of vehicle (Reg No. will suffice in case of motor vehicle)	Name of person in charge of vehicle	
RK67 MKE	CARRUTHERS	

31·80
13·20
18·60

Name of Customer..... ESKDALE ENVIROMENTAL

Consignee.....
KELLS - OVERLY

Weight (in words) and description of material being carried, e.g. Sand, Gravel, etc

..... EIGHTEEN ..... Tonnes 600

of..... SOIL & STONE .....

Situation of nearest available weighing instrument to place where vehicle was loaded.

CERTIFIED that the above particulars are true and relate to the sand or ballast being conveyed in the vehicle described, which sand or ballast is being conveyed in pursuance of:
(A) A sale or an agreement for the sale thereof made by weight
(B) An agreement for the carriage thereof made by weight

Signed.....
(A) or (B) delete the words inapplicable

Dated this..... 4 ..... Day of..... AUG ..... 20..... 22 ..... Driver's Signature.....

SIGNED..... **PRINT NAME**.....
RECEIVED ON BEHALF OF CONSIGNEE

CUSTOMER NO	
DEPT. CODE	
DELIVERY CODE	
VEHICLE NO	
GRADE	
DELIVERED PRICE	
HAULAGE RATE	

TAAG 12

SAND NOT GUARANTEED LIGNITE FREE

ALL GOODS CARRIED UNDER RHA CONDITIONS.

ESKDALE ENVIRONMENTAL SERVICES LTD

Fletcher Way, Parkhouse
Carlisle, CA3 0LJ
eskdale-environmental.co.uk
07714516314

EMPLOYEE NAME: GRANT LITHERLAND	ENVIRONMENTAL ASSISTANT
EMPLOYEE NUMBER: 1A	SITE WHITEHAVEN KELLS
DEPARTMENT: NONE	SUPERVISOR: P CARRUTHERS

DATE	START TIME	END TIME	HOURS	MILEAGE	TOTAL HOURS
Monday 25/7/2022	08.00	13.45	5	91	**5**
Tuesday 26/7/2022	08.00	16.45	8	91	**8**
Wednesday 27/6/2022	08.00	16.45	8	91	**8**
Thursday 28/7/2022	08.00	16.45	8	91	**8**
Friday 29/7/2022	08.00	16.45	8	91	**8**
Saturday					
Sunday					
WEEKLY TOTALS			37	455	**37**

EMPLOYEE SIGNATURE:  DATE: 1/8/2022

SUPERVISOR SIGNATURE: DATE: DATE

ESKDALE ENVIRONMENTAL SERVICES LTD

Fletcher Way, Parkhouse
Carlisle, CA3 0LJ
eskdale-environmental.co.uk
07714516314

EMPLOYEE NAME: GRANT LITHERLAND	ENVIRONMENTAL ASSISTANT
EMPLOYEE NUMBER: 1A	SITE WHITEHAVEN KELLS
DEPARTMENT: NONE	SUPERVISOR: P CARRUTHERS

DATE	START TIME	END TIME	HOURS	MILEAGE	TOTAL HOURS
Monday 1/82022	08.00	16.45	8	91	**8**
Tuesday 2/8/2022	08.00	16.45	8	91	**8**
Wednesday 3/8/2022	08.00	16.45	8	91	**8**
Thursday 4/8/2022	08.00	16.45	8	91	**8**
Friday 5/8/2022	08.00	16.45	8	91	**8**
Saturday					
Sunday					
WEEKLY TOTALS			40	455	**40**

EMPLOYEE SIGNATURE: DATE: 8/8/2022

SUPERVISOR SIGNATURE: DATE: DATE

ESKDALE ENVIRONMENTAL SERVICES LTD

Fletcher Way, Parkhouse
Carlisle, CA3 0LJ
eskdale-environmental.co.uk
07714516314

EMPLOYEE NAME: GRANT LITHERLAND	ENVIRONMENTAL ASSISTANT
EMPLOYEE NUMBER: 1A	SITE WHITEHAVEN KELLS
DEPARTMENT: NONE	SUPERVISOR: P CARRUTHERS

DATE	START TIME	END TIME	HOURS	MILEAGE	TOTAL HOURS
Monday 8/82022	08.00	14.45	6	91	**6**
Tuesday 9/8/2022	08.00	16.45	8	91	**8**
Wednesday 10/8/2022	08.00	16.45	8	91	**8**
Thursday 11/8/2022	08.00	13.45	5	91	**5**
Friday 12/8/2022	08.00	14.45	6	91	**6**
Saturday					
Sunday					
WEEKLY TOTALS			33	455	**33**

EMPLOYEE SIGNATURE:

DATE: 15/8/2022

SUPERVISOR SIGNATURE:

DATE: DATE

ESKDALE ENVIRONMENTAL SERVICES LTD

Fletcher Way, Parkhouse
Carlisle, CA3 0LJ
eskdale-environmental.co.uk
07714516314

EMPLOYEE NAME: GRANT LITHERLAND	ENVIRONMENTAL ASSISTANT
EMPLOYEE NUMBER: 1A	SITE WHITEHAVEN KELLS
DEPARTMENT: NONE	SUPERVISOR: P CARRUTHERS

DATE	START TIME	END TIME	HOURS	MILEAGE	TOTAL HOURS
Monday 15/82022	08.00	16.45	8	91	**8**
Tuesday 16/8/2022	08.00	13.45	5	91	**5**
Wednesday 17/8/2022	08.00	13.45	5	91	**5**
Saturday					
Sunday					
WEEKLY TOTALS			18	455	**18**

EMPLOYEE SIGNATURE: 

DATE: 23/8/2022

SUPERVISOR SIGNATURE:

DATE: DATE

ESKDALE ENVIRONMENTAL SERVICES LTD

Fletcher Way, Parkhouse
Carlisle, CA3 0LJ
eskdale-environmental.co.uk
07714516314

EMPLOYEE NAME: GRANT LITHERLAND	ENVIRONMENTAL ASSISTANT
EMPLOYEE NUMBER: 1A	SITE WHITEHAVEN KELLS
DEPARTMENT: NONE	SUPERVISOR: P CARRUTHERS

DATE	START TIME	END TIME	HOURS	MILEAGE	TOTAL HOURS
Monday					
Tuesday					
Wednesday					
Thursday 21/7/22	09.00	15.30	6	91	6
Friday					
Saturday					
Sunday					
WEEKLY TOTALS			6	91	

EMPLOYEE SIGNATURE:	DATE: 25/7/2022
SUPERVISOR SIGNATURE:	DATE: DATE

PHILLIP CARRUTHERS LTD
PLANT HIRE & GROUNDWORK CONTRACTORS

EMAIL: office@phillipcarruthers.com

VAT Reg No: 410353210
CIS UTR No 91037 26614

5 Pittwood Road
Lillyhall
Workington
Cumbria
CA14 4JP
Tel: 01900 68777

Gleeson Developments Ltd
6 Europa Court
Sheffield Business Park
Sheffield
S9 1XE

INVOICE **Page 1**

Invoice No	29524
Invoice Date	18/04/2024
Order No	
Account Ref	GLE02

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
2.00	O/N S2091/0042/12/ - 11.4.24 2No Loads Clay from Rowans to Saltom Bay @ £60	60.00	120.00	20.00	24.00

Terms: Strictly 30 days net
All queries to be notified in writing within 14 days

We understand and will exercise our statutory right to claim interest and compensation for debt recovery costs under the late payment legislation if we are not paid according to agreed terms. All goods remain the property of Phillip Carruthers Ltd until the invoice is paid in full.

Please Note: All hires are subject to CPA conditions

Total Net Amount	£	120.00
Carriage Net	£	0.00
Total Tax Amount	£	24.00
Invoice Total	£	144.00

FOR DIRECT BANK PAYMENTS
SORT CODE: 090128
ACCOUNT: 08286315

PHILLIP
CARRUTHERS LTD

A 18387

PLANT HIRE & GROUNDWORK CONTRACTORS

Unit 5 · Pitwood Road · Lillyhall · Workington · Cumbria. CA14 4JP
Tel: 01900 68777 · Fax: 01900 68900 · Mobile: 07774 272 904

To Gleeson Homes

Date: 11-4-24 Delivery / Collection Note

1 x 20ton topsoil From
Ashfield Road Gleesons to
Sallon Bay-kells Gleesons.

Customer Signature: ..

Full of fuel? ☐ Yes ☐ No

Conditions:
All damage to tyres and tubes is the responsibility of the hirer.
All hires are subject to CPA Model conditions.

PHILLIP
CARRUTHERS LTD

A 17384

PLANT HIRE & GROUNDWORK CONTRACTORS

Unit 5 · Pitwood Road · Lillyhall · Workington · Cumbria. CA14 4JP
Tel: 01900 68777 · Fax: 01900 68900 · Mobile: 07774 272 904

To GLEESONS
ASHFIELD RD W/TON
.....

Date: 11-4-24 Delivery / Collection Note

1 x LOAD TOPSOIL
FROM ASHFIELD RD
W/TON THE ROWANS
TO SALTOM BAY HEIGHTS
FELLS, W/HAVEN

Customer Signature: .....

Full of fuel? ☐ Yes ☐ No

Conditions:
All damage to tyres and tubes is the responsibility of the hirer.
All hires are subject to CPA Model conditions.

PHILLIP CARRUTHERS LTD
PLANT HIRE & GROUNDWORK CONTRACTORS

EMAIL: office@phillipcarruthers.com

VAT Reg No: 410353210
CIS UTR No 91037 26614

5 Pittwood Road
Lillyhall
Workington
Cumbria
CA14 4JP
Tel: 01900 68777

Gleeson Developments Ltd
6 Europa Court
Sheffield Business Park
Sheffield
S9 1XE

INVOICE **Page 1**

Invoice No	29012
Invoice Date	29/02/2024
Order No	
Account Ref	GLE02

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
189.72	O/N S2091/0042/09/ - Saltom Bay - Remove 189.72T from site @ £17	17.00	3,225.24	20.00	645.05

Terms: Strictly 30 days net
All queries to be notified in writing within 14 days

We understand and will exercise our statutory right to claim interest and compensation for debt recovery costs under the late payment legislation if we are not paid according to agreed terms. All goods remain the property of Phillip Carruthers Ltd until the invoice is paid in full.

Please Note: All hires are subject to CPA conditions

Total Net Amount	£	3,225.24
Carriage Net	£	0.00
Total Tax Amount	£	645.05
Invoice Total	£	3,870.29

FOR DIRECT BANK PAYMENTS
SORT CODE: 090128
ACCOUNT: 08286315

Duty of Care: Waste Transfer note

L 7695

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name Gleeson

Address W-haven

Post Code

Collection address (if different) Gleeson, Bolton boy height Kells W-haven

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name Signature Date & Time 21.2.24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

PX19 LFS

Weight 18.40 Tonne

Driver Name Eddie

Signature

Date of transfer 21.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Operator name and address *

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

Postcode

Permit No.

Date & Time 21.2.24

Duty of Care: Waste Transfer note

L 7694

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name Gleeson

Address W-haven

Post Code

Collection address (if different) Gleeson Saltom Bay heights Keffs W-haven

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name Signature Date & Time 21.2.24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road
Lillyhall
Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

PX19 CFJ

Weight 18.96 Tonne

Driver Name Eddie Steel

Signature

Date of transfer 21. 2. 24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)
as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Operator name and address *

FCC Lillyhall

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3837SJ

Postcode

Permit No.

Date & Time 21.2.24

Duty of Care: Waste Transfer note

L 10672

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred SP01

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESONS

Address

Post Code

Collection address (if different) SALTOM BAY

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc WX 271+09995

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name Signature Date & Time

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight 19.04 Tonne

Driver Name S. Lyon

Signature

Date of transfer 21.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JN GP3037SJ

Site Address (if different)

LILLYHALL

Postcode

Permit No.

Person Receiving

Name

Signature

Date & Time

RX68 YFA

Duty of Care: Waste Transfer note

L 7799

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson, Saltom Bay Heights, Flat 11, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [illegible] Signature: [signature] Date & Time: 21/2/24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.52 Tonne

Driver Name: C. Barton

Signature: [signature]

Date of transfer: 21/2/24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

L. CC
Lillyhall

Site Address (if different)

Postcode:

Permit No.:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3097S

Person Receiving

Name:

Signature:

Date & Time:

RX68 YFA

Duty of Care: Waste Transfer note

L 7798

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson, Sallow Bay Heights, Kells, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Victor McGuire Signature: Date & Time: 22/2/24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.06 Tonne

Driver Name: C. Barker

Signature:

Date of transfer: 22/2/24.

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC
Lillyhall

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

RX68 YFA

Duty of Care: Waste Transfer note

L 7797

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson, Sallom Bay Heights, Kells, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Kaila Mitchell Signature: Date & Time: 22/2/24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.16 Tonne

Driver Name: C Burns

Signature:

Date of transfer: 22/2/24.

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC
Lillyhall

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DUXBURN HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

RX68 YFA

Duty of Care: Waste Transfer note

L 7796

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson, Sutton Bay Heights, Kells, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Victor McGuire Signature: Date & Time: 22/2/24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.64 Tonne

Driver Name: C. Barker

Signature:

Date of transfer: 22/2/24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC
Lillyhall

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

RX68 YFA.

Duty of Care: Waste Transfer note

L 7795

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson

Address:

Post Code:

Collection address (if different): Gleeson, Sallom Bay Heights, 16 115, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: PW2240099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: R Sons Signature: Date & Time: 21/2/24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 19.38 Tonne

Driver Name: C. Barton

Signature:

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 21/2/24.

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC
Lillyhall
WIGTON

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH 6P3037SJ

Site Address (if different):

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10104

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address: DW224400999

Post Code:

Collection address (if different): SALTOM BAY, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 14-2-24

Section C – Waste Carrier (Transferee)

RK71 FXY

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18-68 Tonne

Driver Name: Simon

Signature: S Palmer

Date of transfer: 14-2-24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Date & Time:

Operator name and address *

FCC
Lillyhall

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

Postcode:

Permit No.:

Duty of Care: Waste Transfer note

L 10663

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Hesson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW 2240099

SIC Code: RK23FUY

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J. Watson Signature: Date & Time: 14.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.90 Tonne

Driver Name: Shaun Lyon

Signature:

Date of transfer: 14.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different)

Lillyhall

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH 6P3037SJ

PHILLIP CARRUTHERS LTD
PLANT HIRE & GROUNDWORK CONTRACTORS

5 Pittwood Road
Lillyhall
Workington
Cumbria
CA14 4JP
Tel: 01900 68777

EMAIL: office@phillipcarruthers.com

VAT Reg No: 410353210
CIS UTR No 91037 26614

Gleeson Developments Ltd
6 Europa Court
Sheffield Business Park
Sheffield
S9 1XE

INVOICE **Page 1**

Invoice No	29527
Invoice Date	18/04/2024
Order No	
Account Ref	GLE02

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
245.02	* O/N S2091/0042/10/ - Saltom Bay Heights, Whitehaven - 4.4.24 - 11.4.24 - 245.02T @ £17	17.00	4,165.34	0.00	0.00
0.00		0.00	0.00	0.00	0.00

Terms: Strictly 30 days net
All queries to be notified in writing within 14 days

We understand and will exercise our statutory right to claim interest and compensation for debt recovery costs under the late payment legislation if we are not paid according to agreed terms. All goods remain the property of Phillip Carruthers Ltd until the invoice is paid in full.

Please Note: All hires are subject to CPA conditions

Total Net Amount	£	4,165.34
Carriage Net	£	0.00
Total Tax Amount	£	0.00
Invoice Total	£	4,165.34

FOR DIRECT BANK PAYMENTS
SORT CODE: 090128
ACCOUNT: 08286315

Duty of Care: Waste Transfer note

L 10694

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HIGGINS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: RK23FLM.

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: F Mullan Signature: Date & Time: 4.4.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 18.44 Tonne

Driver Name: SHAUN LYON

Signature: Shyes

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 4.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

M-MEAT.

04/4/24

L 11151

Duty of Care: Waste Transfer note

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Heights. Kells

Post Code:

SIC Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240081 RK23 FLM

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: R Jones Signature: RJ Date & Time: 8.4.24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.72 Tonne

Driver Name: Sharon Lyon

Signature: S Lyon

Date of transfer: 8.4.24

*delete as appropriate

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different): Lillyhall

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH 6P3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 11152

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW 2240091

SIC Code: RM23FM14

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: R JONES Signature: RJ Date & Time: 8.4.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.18 Tonne

Driver Name: SHARON LYON

Signature: SLyon

Date of transfer: 8.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different): LILLYHALL.

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

L 11153

Duty of Care: Waste Transfer note

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address

Post Code

Collection address (if different) SILLOM BAY HEIGHTS ICELL

Post Code

SIC Code

Permit/Registration/Planning Permission Exemption/Authority/etc NW224009 EXEMPT

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name R SONES Signature Date & Time 8.4.24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight 18.92 Tonne

Driver Name SHARON LYON

Signature Sharon

Date of transfer 8.4.24

*delete as appropriate

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Operator name and address *

FCC

Site Address (if different)

LILLYHALL

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode

Permit No.

Date & Time

Duty of Care: Waste Transfer note

L 11154

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Saltom Bay, Tigh Ty, Kelly

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224009 RK23 FUY

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: R Jones Signature: R J Date & Time: 8/4/24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.20 Tonne

Driver Name: Shaun Lyon

Signature: Shaun Lyon

Date of transfer: 8.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different)

Lillyhall

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Duty of Care: Waste Transfer note

L 11156

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW 2240009 RK23 FUM

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 10.4.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 19.36 Tonne

Driver Name: SHARON LYON

Signature: Skyes

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 10.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

Site Address (if different): Lillyhall

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 11157

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spal

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2244009 RK23 FLH

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [illegible] Signature: [signature] Date & Time: 10.4.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 18.48 Tonne

Driver Name: Sharon Lyon

Signature: Slyon

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 10.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC
FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

Lillyhall

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 11158

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224009 RKBFUM.

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: P Jones Signature: P Date & Time: 10/4/24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.24 Tonne

Driver Name: Shaun Lyon

Signature: Shyer

Date of transfer: 10.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different): Lillyhall

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 11159

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Salton Bay Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2214009 RK23 FLM

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.46 Tonne

Driver Name: Sharon Lyon

Signature:

Date of transfer: 10.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different): Lillyhall

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 11163

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BOG, HIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DN224009 R123 FU4

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: P Ll Signature: P Sowb Date & Time: 11/4/24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: Tonne

Driver Name: SHAUN LYON

Signature: S Lyon

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 11.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

Site Address (if different): Lillyhall

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 11162

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gilleon Homes

Address:

Post Code:

Collection address (if different): Saltom Bay Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099 RK23FU4

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.80 Tonne

Driver Name: Sharon Lyon

Signature:

Date of transfer: 11.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different): Lillyhall.

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 11161

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY, HEGGIES, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099 RK23FUM

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time:

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.34 Tonne

Driver Name: [illegible]

Signature: [signature]

Date of transfer: 11.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Duty of Care: Waste Transfer note

L 11160

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224009 RK23FU4.

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: R SOND Signature: [signature] Date & Time: 11/4/24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 18.62 Tonne

Driver Name: [illegible]

Signature: [signature]

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 11.4.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH 6P3037SJ

Person Receiving

Name:

Signature:

Date & Time:

PHILLIP CARRUTHERS LTD
PLANT HIRE & GROUNDWORK CONTRACTORS

EMAIL: office@phillipcarruthers.com

VAT Reg No: 410353210
CIS UTR No 91037 26614

5 Pittwood Road
Lillyhall
Workington
Cumbria
CA14 4JP
Tel: 01900 68777

Gleeson Developments Ltd
6 Europa Court
Sheffield Business Park
Sheffield
S9 1XE

INVOICE **Page** 1

Invoice No	29157
Invoice Date	14/03/2024
Order No	
Account Ref	GLE02

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
246.54	O/N S2091/0042/10/ - Saltom Bay Heights, Whitehaven - 6.3.24 - 246.54T @ £17	17.00	4,191.18	20.00	838.24

Terms: Strictly 30 days net
All queries to be notified in writing within 14 days

We understand and will exercise our statutory right to claim interest and compensation for debt recovery costs under the late payment legislation if we are not paid according to agreed terms. All goods remain the property of Phillip Carruthers Ltd until the invoice is paid in full.

Please Note: All hires are subject to CPA conditions

Total Net Amount	£	4,191.18
Carriage Net	£	0.00
Total Tax Amount	£	838.24
Invoice Total	£	5,029.42

FOR DIRECT BANK PAYMENTS
SORT CODE: 090128
ACCOUNT: 08286315

Duty of Care: Waste Transfer note

L 10682

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: A Jones Signature: Date & Time: 6.3.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.04 Tonne

Driver Name: SHARON LYON

Signature: S Lyon

Date of transfer: 6.3.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different)

Lillyhall,

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10905

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Stone / Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Salton Bay, Kells, Whitehaven

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: F Sons Signature: Date & Time: 6.3.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 21.96 Tonne

Driver Name: Jodie Clarke

Signature: J. Clarke

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 6.3.24

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC landfill
Lillyhall
Workington

Site Address (if different)

Postcode:

Permit No.:

Date & Time: 6.3.24

*delete as appropriate

Duty of Care: Waste Transfer note

L 10681

NON hazardous waste as defined by ~~waste te~~chnical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SPOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW1224009999

SIC Code: R123 FU4

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [illegible] Signature: [signature] Date & Time: 6.3.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.10 Tonne

Driver Name: SHANNON

Signature: [signature]

Date of transfer: 6.3.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 10680

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: CN224D99C1

SIC Code: RK23 FUY.

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 6.3.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.84 Tonne

Driver Name: SHAUN LYON

Signature: S Lyon

Date of transfer: 6.3.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10679

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil ✓

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GILLSON HOMES

Address:

Post Code:

Collection address (if different): SAXONBY HEIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: PW 22400999 RC23 FH4.

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [redacted] Signature: [redacted] Date & Time: 6.3.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.52 Tonne

Driver Name: SHARON LYON

Signature: [redacted]

Date of transfer: 6324

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10678

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name Gleeson Homes

Address

Post Code

Collection address (if different) Saxon Bay Highlands Kells

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc DW2240099 RK23FU4

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WM5 (2015)

Section A & B (Producer)

Name Signature Date & Time 6.3.24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Weight 18.64 Tonne

Driver Name Sharon Lyon

Signature Sharon

Waste Carrier Registration No. CBDU 64841

Date of transfer 6.3.24

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Date & Time

Operator name and address *

FCC

Lillyhall

Postcode

Permit No.

Date & Time

*delete as appropriate

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Duty of Care: Waste Transfer note

L 10677

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred SPOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address

Post Code

Collection address (if different) SALTOM BANK KELLS

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc EW124009919 RL23 FYH

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name Signature F Hawes Date & Time 6.3.24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Weight 17.64 Tonne

Driver Name SHARON LYON

Signature Slyon

Waste Carrier Registration No. CBDU 64841

Date of transfer 6.3.24

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)
as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Date & Time

Operator name and address *

FCC

Site Address (if different)
LILLYHALL

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode

Permit No.

Date & Time

*delete as appropriate

Duty of Care: Waste Transfer note

L 10676

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240009499 RIC23 FW4

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [redacted] Signature: [redacted] Date & Time: 6.3.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 17.96 Tonne

Driver Name: SHARON LYON

Signature: [redacted]

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 6.3.24

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Date & Time:

Operator name and address *

FCC

ECC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

*delete as appropriate

Duty of Care: Waste Transfer note

NON hazardous waste as defined by waste technical guide WM3 (2015)

L 10722

Section A – Description of Waste

Description of waste being transferred: Excavated Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleesons

Address:

Post Code:

Collection address (if different): Salton Bay Heights Talk Whitehaven

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: P Jones Signature: Date & Time: 6/4/24 3PM

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 19.92 Tonne

Driver Name: C Barker

Signature:

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 6/4/24

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Date & Time

Operator name and address *

f cc Lillyhall.

Site Address (if different)

Postcode

Permit No.

*delete as appropriate

Duty of Care: Waste Transfer note

NON hazardous waste as defined by waste technical guide WM3 (2015)

10761

Section A – Description of Waste

Description of waste being transferred

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name Gleeson

Address W. haven

Post Code

Collection address (if different) Gleeson Solfern bay heights Kells W. haven

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc P Jones

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name Eddie Stead Signature Date & Time 6.3.24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road
Lillyhall
Workington

Post Code CA14 4JP

Weight 18.70 Tonne

Driver Name Eddie Stead

Signature

Waste Carrier Registration No. CBDU 64841

Date of transfer 6.3.24

Section D – Waste Receiver (Disposal Details)

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)
as above

Postcode

Permit No. EPR/JP3290VP

Person Receiving

Name

Signature

Date & Time

Operator name and address *

FEC Whitehaven

Site Address (if different)

DW 22 400 999

Postcode

Permit No.

Date & Time 6.3.24

*delete as appropriate

Duty of Care: Waste Transfer note

L 10117

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred SPOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES

Address

Post Code DW22 400 999

Collection address (if different) SALTOM BAY HEIGHTS WHITEHAVEN

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc

SIC Code

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name R SONS Signature Date & Time 6-3-24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight 19.44 Tonne

Driver Name A BURDON

Signature

Date of transfer 6-3-24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No. EPR/JP3290VP

Operator name and address *

FCC
LILLYHALL

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode

Permit No.

Person Receiving

Name

Signature

Date & Time

Duty of Care: Waste Transfer note

L 3634

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SOIL & STONE

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): ~~SAT~~ SALTON BAY HEIGHTS WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: [redacted] Signature: [redacted] Date & Time: 6-3-24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 19.44 Tonne

Driver Name: C PATTINSON

Signature: [redacted]

Date of transfer: 6-3-24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: ERP/JP3290VP

Operator name and address *

FCC
LILLYHALL

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 10230

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred _____

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name GLEESON HOMES LTD

Address _____

Post Code _____

Collection address (if different) SALTOM BAY HEIGHTS, EELS, WHITEHAVEN

Post Code _____

Permit/Registration/Planning Permission Exemption/Authority/etc _____

SIC Code _____

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name _____ Signature F Howie Date & Time 6-3-24

Section C – Waste Carrier (Transferee)

Full Name Phillip Carruthers Ltd

Address 5 Pitwood Road, Lillyhall, Workington

Post Code CA14 4JP

Waste Carrier Registration No. CBDU 64841

Weight PK72 GFJ 8.34 Tonne

Driver Name G DOVER

Signature _____

Date of transfer 6-3-24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode _____

Permit No. EPR/JP3290VP

Operator name and address *

FCC
LILLYHALL
WORKINGTON

Site Address (if different)

Postcode _____

Permit No. _____

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Person Receiving

Name _____

Signature _____ Date & Time _____

PHILLIP **CARRUTHERS** LTD
PLANT HIRE & GROUNDWORK CONTRACTORS

EMAIL: office@phillipcarruthers.com

VAT Reg No: 410353210
CIS UTR No 91037 26614

5 Pittwood Road
Lillyhall
Workington
Cumbria
CA14 4JP
Tel: 01900 68777

Gleeson Developments Ltd
6 Europa Court
Sheffield Business Park
Sheffield
S9 1XE

INVOICE **Page** 1

Invoice No	28854
Invoice Date	14/02/2024
Order No	
Account Ref	GLE02

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
581.02	O/N S2091/0042/07/ -5.2.24 - 8.2.24 Saltom Bay Heights - 581.02T Soils Out @ £17	17.00	9,877.34	20.00	1,975.47

Terms: Strictly 30 days net
All queries to be notified in writing within 14 days

We understand and will exercise our statutory right to claim interest and compensation for debt recovery costs under the late payment legislation if we are not paid according to agreed terms. All goods remain the property of Phillip Carruthers Ltd until the invoice is paid in full.

Please Note: All hires are subject to CPA conditions

Total Net Amount	£	9,877.34
Carriage Net	£	0.00
Total Tax Amount	£	1,975.47
Invoice Total	£	11,852.81

FOR DIRECT BANK PAYMENTS
SORT CODE: 090128
ACCOUNT: 08286315

Duty of Care: Waste Transfer note

L 7743

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS WIGAN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: EDW224099

SIC Code: RC23F14

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Weight: 1688 Tonne

Driver Name: SHADOW MOSS

Signature:

Waste Carrier Registration No.: CBDU 64841

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name: M. THOMAS

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7742

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

	How transported	Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HIGHWAY WIGTON

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: EW224099

SIC Code: RLZ3 FUL.

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.62 Tonne

Driver Name: SHARON LYON

Signature:

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 7741

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW 224099 PW 224099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: RX23 FUM Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.76 Tonne

Driver Name: SHARON LEE

Signature: Slyn

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different): LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name: M. TAYLOR

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7740

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

	How transported	Quantity
Loose	✓	
8 Wheeler		
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN.

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240999

SIC Code: RK23 FHH.

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: RK23 FHH Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.14 Tonne

Driver Name: SHARON LYON

Signature: Shyon

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different): LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name: M. TEASE

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7738

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleesons

Address:

Post Code:

Collection address (if different): Salton Bay Heights

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240994

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.44 Tonne

Driver Name: Sharon Lloo

Signature: Slyer.

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

Lillyhall

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7739

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: RICK FUM Signature: [signature] Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.24 Tonne

Driver Name: SHARON LEE

Signature: [signature]

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name: M. TOAST

Signature: [signature]

Operator name and address *

FCC

Site Address (if different): LILLYHALL

Postcode:

Permit No.:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Date & Time:

Duty of Care: Waste Transfer note

L 7954

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: STONE / SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes
Solton Bay Heights
Kells
Whitehaven
CA28 9PG

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2400099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.42 Tonne

Driver Name: Sodic Clarke

Signature: J. Clarke

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Environment
Joseph Noble Road
Lillyhall
Workington CA14 4JP

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name: M. TEAR

Signature: MEC TR

Date & Time: 5.2.24

Duty of Care: Waste Transfer note

L 09998

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Stone / Soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Sauton Bay Heights, Kells, Whitehaven, CA28 9PG

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the ~~waste technical~~ guide WMS (2015)

Section A & B (Producer)

Name: RK70 FRR Signature: Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.32 Tonne

Driver Name: Jodie Clarke

Signature: J.Clarke

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Environment
Joseph Noble Road
Lillyhall
Workington, CA14 4JH

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 5.2.24

RK70 FRR

Duty of Care: Waste Transfer note

L 09999

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Stone/ Soil

Waste Type	EWC code		Waste Type	EWC code	
Soil and Stone	170504	✓	Tiles/ceramics	170103	
Rubble	170107		Tarmac	170302	
Concrete, brick, etc	170101				
Bricks	170102				

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Greeson Homes

Address:

Post Code:

Collection address (if different): Greeson Homes, Salton Bay Heights, Kells, Whitehaven, CA28 9PG

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

RK70 FRR

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.72 Tonne

Driver Name: Jodie Clarke

Signature: J Clarke

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Environment
Joseph Noble Road
Lillyhall
Workington, CA14 4JH

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name: M. Tyson

Signature:

Date & Time: 5.2.24

RK 70 FRR

Duty of Care: Waste Transfer note

L 7951

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Soil / Stone

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Solway Bay Heights, Wells, Whitehaven, CA28 9PG

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW 2240099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24

RK 70 FRR

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.00 Tonne

Driver Name: Sodie Clark

Signature: J. Clarke

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name: M. TEAR

Signature:

Operator name and address *

FCC Environment
Joseph Nobel Road
Lillyhall
Workington, CA14 4JH

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 7952

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: STONE / SOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Saxon Bay Heights, Keills, Whitehaven, CA28 9PG

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: 0 W224099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 5.2.24

RT70 FRR

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.72 Tonne

Driver Name: Jodie Clarke

Signature: J. Clark

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name: M. [illegible]

Signature: [illegible]

Operator name and address *

FCC Environment
Joseph Noble Road
Lowca
[redacted], CA14 4JH

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 7953

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Stone / soil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	1
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: Gleeson Homes

Address:

Post Code:

Collection address (if different): Gleeson Homes, Salton Bay Heights, Keills, Whitehaven, CA28 9PG

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: EPR/QW2140099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: RK 70 FRR Signature: Date & Time: 5.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.20 Tonne

Driver Name: Jodie Clarke

Signature: J. Clarke

Date of transfer: 5.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name: M. TEARE

Signature:

Operator name and address *

FCC Environment
Joseph Noel Road
Lillyhall
Workington, CA14 4JP

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 7747

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS LOWCAE

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DO224099

SIC Code: 2K23 fu4

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 7.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.64 Tonne

Driver Name: SIMON LEE

Signature: Sykes

Date of transfer: 7.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name: M. TEAR

Signature:

Operator name and address *

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 7748

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

	How transported	Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240 99

SIC Code: RK23 FUY

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 7.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.90 Tonne

Driver Name: SHARON LYON

Signature: Slyon

Date of transfer: 7.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7746

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil subsoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HIGHTS WORKINGTON

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240991

SIC Code: RK23 FUM.

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 7.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.90 Tonne

Driver Name: SHARON LYON

Signature: Slyon

Date of transfer: 7.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name: M. TAR

Signature: MEL TAR

Date & Time:

Duty of Care: Waste Transfer note

L 7744

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil Subsoil.

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY, HEGGETS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: GW224099.

SIC Code: RK23 FUU

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: RK23 FUU Date & Time: 7.2.24.

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.02 Tonne

Driver Name: SHARON LYON

Signature: Slyon

Date of transfer: 7.2.24.

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name: M. TEAR

Signature: MTear for

Date & Time:

Duty of Care: Waste Transfer note

L 7745

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil Subsoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS WHITEHAVEN.

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: PN224099

SIC Code: RK23 FUY

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 7.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.96 Tonne

Driver Name: SIMON LYON

Signature: Slyon

Date of transfer: 7.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name: M. TEAR

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7749

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS WHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224099

SIC Code: RK23 4HY

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 7.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.26 Tonne

Driver Name: SHARON LYON

Signature: Sharon

Date of transfer: 7.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different): LILLYHALL

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10656

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: GW224009

SIC Code: R123 f44

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.82 Tonne

Driver Name: SHARON LYON

Signature: Slyon

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

Lillyhall

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 10655

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099

SIC Code: RK23 FUH

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.02 Tonne

Driver Name: SHARON LYON

Signature: S Lyon

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different)

LILLYHALL

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10654

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.10 Tonne

Driver Name: SHARON LYON

Signature: S Lyon

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different): LILLYHALL

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Duty of Care: Waste Transfer note

L 10653

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW 2240099

SIC Code: RX23 FUY

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.96 Tonne

Driver Name: SHARON LYON

Signature:

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different): as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC

Site Address (if different): LILLYHALL

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Date & Time:

Duty of Care: Waste Transfer note

L 10652

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SPOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW2240099

SIC Code: R123fuu

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 9.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.02 Tonne

Driver Name: SHARON LYON

Signature: S. Lyon.

Date of transfer: 9.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

Site Address (if different)

LILLYHALL.

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 10651

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESON HOMES

Address:

Post Code:

Collection address (if different): SALTOM BAY HEIGHTS, LOWESTOFT

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224099

SIC Code: RK23FUM.

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: JWatson Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.50 Tonne

Driver Name: SHARON LYON

Signature: S Lyon.

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time:

Duty of Care: Waste Transfer note

L 7750

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name

Address

Post Code

Collection address (if different): SALTOM BAY HEIGHTS, WHITEHAVEN

Post Code

Permit/Registration/Planning Permission Exemption/Authority/etc: DW224099

SIC Code: RIC23 F414

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: J Watson Signature: J Watson Date & Time: 9.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.16 Tonne

Driver Name: SHARON LEE

Signature: S Lyes

Date of transfer: 9.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode

Permit No.: EPR/JP3290VP

Operator name and address *

FCC

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Site Address (if different)

LILLYHALL

Postcode

Permit No.

Person Receiving

Name

Signature

Date & Time

Duty of Care: Waste Transfer note

L 7592

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SPOIL Subsoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: [redacted]

Address: DW224099 GLEESONS HOMES

Post Code:

Collection address (if different): SALTOM HEIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

RK71 FYY

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.94 Tonne

Driver Name: Simon

Signature: S Palmer

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Lillyhall

Site Address (if different)

Postcode:

Permit No.:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Person Receiving

Name:

Signature:

Date & Time: 8.2.24

Duty of Care: Waste Transfer note

L 7593

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: DW 224099

Post Code:

Collection address (if different): SALTOM HEIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.38 Tonne

Driver Name: Simon

Signature: S Palmer

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Lillyhall

Site Address (if different)

Postcode:

Permit No.:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Person Receiving

Name:

Signature:

Date & Time: 8.2.24

Duty of Care: Waste Transfer note

L 7594

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: DW224099.

Post Code:

Collection address (if different): SALTOM BAY, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

RK71 FMY

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.46 Tonne

Driver Name: Simon

Signature: S Palm

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:
Signature:

Operator name and address *

FCC Lillyhall

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Duty of Care: Waste Transfer note

L 7595

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SPOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: DW2240099

Post Code:

Collection address (if different): SATOM HEIGHTS KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

RKT PM

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.76 Tonne

Driver Name: Simon

Signature: SPalmer

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Person Receiving

Name:

Signature:

Operator name and address *

FCC
Lillyhall

Site Address (if different)

Postcode:

Permit No.:

Date & Time:

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Duty of Care: Waste Transfer note

L 7596

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: SPOIL

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: DW2240099

Post Code:

Collection address (if different): SALTOM HEIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: RK71PYY Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 17.92 Tonne

Driver Name: Simon

Signature: S Palmer

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Lillyhall

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 8.2.24

Duty of Care: Waste Transfer note

L 7597

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: DW2240099

Post Code:

Collection address (if different): Salton Heights, Kells

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

RK71 FYY

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 18.40 Tonne

Driver Name: Simon Palmer

Signature:

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Lillyhall

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 8.2.24

Duty of Care: Waste Transfer note

L 7598

NON hazardous waste as defined by waste technical guide WM3 (2015)

Section A – Description of Waste

Description of waste being transferred: Spoil

Waste Type	EWC code	
Soil and Stone	170504	✓
Rubble	170107	
Concrete, brick, etc	170101	
Bricks	170102	

Waste Type	EWC code	
Tiles/ceramics	170103	
Tarmac	170302	

How transported		Quantity
Loose		
8 Wheeler	✓	
4 Wheeler		
Grab		
Other		

Section B – Producer (Transferor) and origin of waste

Full Name: GLEESONS

Address: DW 2240099

Post Code:

Collection address (if different): SALTOM HEIGHTS, KELLS

Post Code:

Permit/Registration/Planning Permission Exemption/Authority/etc:

SIC Code:

By signing below for section A & B (producer) I confirm that I have fulfilled my duty a apply waste hierarchy as required by regulation 12 of the waste regulations (2011) and by the waste technical guide WMS (2015)

Section A & B (Producer)

Name: RICHARD Signature: Date & Time: 8.2.24

Section C – Waste Carrier (Transferee)

Full Name: Phillip Carruthers Ltd

Address: 5 Pitwood Road, Lillyhall, Workington

Post Code: CA14 4JP

Waste Carrier Registration No.: CBDU 64841

Weight: 20.54 Tonne

Driver Name: Simon

Signature: S Palmer

Date of transfer: 8.2.24

Section D – Waste Receiver (Disposal Details)

*delete as appropriate

Operator name and address *

Phillip Carruthers Ltd
5 Pitwood Road
Lillyhall, Workington
CA14 4JP

Site Address (if different)

as above

Postcode:

Permit No.: EPR/JP3290VP

Operator name and address *

FCC Lillyhall

Site Address (if different)

FCC RECYCLING UK LTD
LILLYHALL LANDFILL
DIXON HOUSE
WORKINGTON
CA14 4JH GP3037SJ

Postcode:

Permit No.:

Person Receiving

Name:

Signature:

Date & Time: 8.2.24

APPENDIX 6

NOTES ON LIMITATIONS

NOTES ON LIMITATIONS

1 FWS Consultants Ltd ("FWS") has prepared this report solely for the use of the client and/or his agent (the "Client") on the basis of exchange(s) of written proposals and instructions, and FWS accepts no responsibility or liability:-

a) for use of this report by any party other than the person for whom it was commissioned, or;

b) for the consequences of the report being used for any purpose other than that for which FWS was instructed to prepare it.

Should any third party wish to use or rely upon the contents of the report, written approval from FWS must be sought.

2 All information supplied by the Client, the Client's staff and professional advisers, local authorities, other statutory bodies, investigation agencies and publicly accessible databases, shall be provided to FWS in writing, and is accepted as being correct unless otherwise specified in writing by the discloser of the information.

3 The conclusions and recommendations in this report represent the professional opinions of FWS derived from currently accepted industry practices, and through the exercising of reasonable skill and care to be expected of a professional geosciences and environmental consultancy of similar size and experience. The assessments and judgments given in this report are directed by and limited to both the finite data on which they are based and the proposed works to which they are addressed.

4 Environmental and geotechnical desk studies comprise a study of available information obtained from various identified sources, authorities and parties. The information reviewed cannot be exhaustive and has been accepted in good faith as providing representative and true data pertaining to site conditions. For clarity, no independent verification of this data is carried out by FWS and it is accepted at face value. Any identified risks in desk study reports are perceived risks based on the information available at the time. Actual risks can only be assessed after carrying out a thorough physical investigation of the site that serves to validate such identified risks.

5 Data acquisition during site investigations is subject to the limitations of the methods of investigation used, site conditions and access constraints. Exploratory holes undertaken during fieldwork, particularly boreholes and/or trial pits, investigate a small volume of ground in relation to the size of the site and thus can only provide an indication of site conditions. The opinions provided and recommendations given in this report are based on the desk study information and ground conditions apparent at the site of each of the exploratory holes. There may be ground conditions elsewhere onsite that have not been disclosed by the investigation and which therefore have not been taken into account in this report. FWS will take all due care and make commentary on the adequacy of data collection and therefore the ability to highlight the presence or otherwise of exceptional conditions.

6 Owing to the natural variation of the systems that are being investigated, and the anthropological impact similarly changing through time, the findings and opinions in this report are relevant to the dates of the site works and should not be relied upon to represent conditions after a reasonable passing of time. Site conditions will change over time due to natural variations and human activities. The comments made on groundwater, surface water and soil gas conditions are based on observations made at the time that the site work was carried out. It should be noted that these conditions will vary owing to seasonal, tidal and meteorological effects. Variation in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, or subsequent developments or activities on the site or adjacent area.

7 The scope of the investigation, as agreed between FWS and the Client, was undertaken based on the specific development proposals of the Client and may be inappropriate to another form of development or scheme.

8 The opinions expressed in this report regarding contamination, geotechnical and/or waste assessments are based on simple statistical analysis and comparison with available guidance values. No liability can be accepted for the retrospective effects of any changes or amendments to these values.