



**RAF Rudloe, Corsham
Corsham**

Supplementary
Ground
Investigation
Report

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Investigation Report

For

Taylor Wimpey Bristol Ltd

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1.0 Introduction

1.1. Terms of Reference

Rodgers Leask Ltd (RLL) was commissioned by Taylor Wimpey Bristol Ltd (TW) to undertake a supplementary ground investigation at the former RAF Rudloe, Corsham to address gaps from the findings of previous geo-environmental assessments regarding the presence of Asbestos Containing Material (ACM) within soils and foundations on site from both previously demolished and existing buildings.

1.2. Background

The site was purchased from the MoD by Inverness Terrace and has been vacant for a number of years. There are multiple vacant buildings present on site.

The site is accessed from Westwells Road in Corsham, Wiltshire, SN13 9RA. The site measures approx. 8.46 hectares.

The site is underlain by the Bath Stone Quarries, MoD bunker and stores and Box Railway Tunnel.

1.3. Proposed Development

The proposed Taylor Wimpey (TW) layout provided shows the site to be developed for 113 residential dwellings with private Gardens, POS, highways and associated infrastructure.

1.4. Objectives and Scope of the Report

The objective of this Report is to provide greater confidence in the ground conditions at site regarding the presence of ACM within soils beneath the footprints of buildings, alongside other suspected areas of Made Ground. Of particular concern is the foundations beneath current and past buildings, as the casting method of the foundations is unknown and there is a potential for permanent cement bound asbestos sheeting to have been used as shuttering. Foundations, where encountered were to be visually inspected for ACM and sampled.

Additionally, RLL undertook shallow samples of the topsoil present on site to determine if this is suitable for reuse in the proposed remedial solution for the

site. Samples were scheduled for a standard soil; suite including metals, PAHs, asbestos and petroleum hydrocarbons.

Also, as the site roadways are old there is potential that coal tar may have been used in the construction of these roads. If asphalt is found to contain coal tar, then this is deemed hazardous waste. RLL collected representative samples from the site roadways and screened them for the presence of coal tar.

1.5. Sources of Information

The following documents and data sources have been reviewed in preparation of this GIR and should be read in conjunction with this report:

- Asbestos Inspection Report Demolition Survey – Green Shield Environmental Ltd, Ref 7522, dated June 2016.
- Desk study and ground investigation report prepared for Inverness Terrace – Hydrock Ltd, ref. RUD – HYD -XX-XX-D-001, dated June 2016.
- Supplementary ground investigation prepared for Dandara – Hydrock Ltd, ref. 24005-HYD-XX-XX-RP-GE-1000, dated June 2022.
- Asbestos testing prepared for Dandara – Hydrock Ltd, ref. 24005-HYD-XX-XX-RP-GE-1002, dated September 2022.
- Remediation strategy prepared for Dandara – Hydrock Ltd, ref. 24005-HYD-XX-XX-RP-GE-1001, dated October 2023.
- Earthworks specification prepared for Dandara – Hydrock Ltd, ref. 24005-HYD-XX-XX-RP-GE-1005, dated October 2023.

An Entec ground investigation (report 0941) dated January 2011 has also been undertaken. RLL has not been provided with a copy of this report, however the exploratory hole positions are shown on the Hydrock drawings and have been repeated on the RLL exploratory hole drawing located in Appendix A.

1.6. Limitations and Confidentiality

All conclusions and recommendations made within this report are based upon and limited to the factual information obtained as part of this investigation. No responsibility can be taken by RLL for information obtained by third parties, and it has been assumed that all third-party information provided is true and correct.

No liability can be accepted for conditions not revealed within the exploratory holes or pits undertaken by this investigation. The exploratory points cover only a small proportion of the total Site area. RLL has where necessary undertaken

extrapolation between locations and no responsibility can be taken for different conditions which may occur between locations.

RLL has undertaken the work in accordance with our understanding of current best practice at the time of undertaking the report. Further assessment and revision of the report may be needed should new information become known or legislation/changes to best practice be introduced after the date of issue of the report.

RLL has prepared the report for the sole use and reliance of the Client. The report may not be used or relied upon by any unauthorised third party without the explicit written agreement of RLL.

The interpretive work undertaken within this report remains the intellectual property of RLL and must not be divulged to any commercial third party without prior written agreement of RLL.

At the time of writing, detailed information on the proposed structures, such as detailed layout, loadings and serviceability limits, was not available. Accordingly, where geotechnical design advice is provided it is for information only and should be reassessed by a competent specialist once the development layout and structural loadings are known.

2.0 Site Overview

2.1. Site Location and Description

The site is currently a disused military facility. An operational MoD fire station is located within the centre of the site, which is currently outside the proposed developable area and will be retained within the development. A portion of the disused military buildings have been demolished yet many remain.

One large diameter air shaft is located in the centre of the site adjacent to the main access point for the site, which is associated with Box railway tunnel which underlies the site. The air shaft is securely fenced, and the fenced perimeter marks the site boundary between the development site and land belonging to Network Rail.

There are three large diameter capped air shafts known to be present on site. These features are understood to service the disused mines and MoD facilities underlying the site. Access roads and areas of hardstanding car parking are located across the site. The rest of the site is formed by soft landscaping with sporadic mature trees.

The site is underlain by:

- Bath Stone Quarry mines;
- MoD stores/bunker; and
- Box Railway Tunnel.

2.2. Site History

One air shaft is shown on site on the earliest available historical plan. This feature is understood to have been constructed between 1836 and 1841 and is associated with the underlying Box Railway Tunnel. A further two airshafts are shown to have been sunk on the site before 1969 and are associated with the underlying Bath Stone Quarries and MoD stores/bunker.

A small quarry feature was shown in the northwestern corner of the site and was shown to be infilled by 1900. A small reservoir was also shown to be located over this area of the site and is shown to be infilled by 1993.

The site comprised fields and agricultural land until 1947 where it was developed into Royal Air Force (RAF) Rudloe Manor which was a strategic Royal Air Force command station during World War II (WWII).

The northern area of the site is underlain by the Forest Marble Limestone Formation comprising bioclastic oolitic grainstone or less commonly packstone limestone. The remainder of the site is underlain by the Forest Marble Mudstone Formation comprising variable calcareous silicate mudstone.

The boundary between these two strata follows the Corsham Fault which trends northeast to southwest, with a downthrow to the southeast.

The majority of the site is underlain by disused Bath Stone Quarries, part of which forms active/disused MoD stores. These features range from between 22m and 25m below the site.

A geotechnical assessment of the mine and roof pillars undertaken by Parsons Brinckerhoff (PB) in 2011 indicates that the quarry features currently present a low risk of mining related subsidence to the site. The assessment identified that the capping of vertical shafts associated with the mines may pose a risk to future developments and have recommended that any structures be offset by 2.0m from the concrete lining of the shafts.

Hydrock subsequently reinspected the mine roof and pillars in June 2022 and found no deterioration from the conditions encountered in the 2011 PB survey. Hydrock conclude that the risk of mining related ground subsidence is low.

2.4. Summary of Previous Investigations

2.4.1. Introduction

RLL has shown the locations of all the previous exploratory holes on drawing 251084-RLL-25-XX-DR-O-0003 located in **Appendix A**. The following sections present an overview of the previous reports.

2.4.2. Asbestos Inspection Report Demolition Survey – Green Shield, dated June 2016

The RLL walkover and Green Shield asbestos survey only identified limited areas of underground ducting servicing buildings on site including pipework and sewage runs.

Green Shield undertook a pre-demolition survey of the site, incorporating buildings and underground services. The survey of the services was limited by restricted access within survey chambers. Of the ducts inspected, asbestos was not encountered within the insulation and pipes themselves, though several

gaskets containing ACM were identified. Insulation for the piping was analysed as “manmade mineral fibre insulation”.

One case of presumed asbestos shuttering was visually identified at distance, however in other locations shuttering of the concrete was achieved with wooden materials. A summary of identified ACM from the service trenches is presented in the table below;

Location	Asbestos Material	Identification	Risk
Undercroft 1	Shuttering Material - Chrysotile	Presumed	Very Low Risk
Undercroft 1	Pipe Gaskets	Presumed	Very Low Risk
Duct adjacent to building 10	Pipe Gaskets	Presumed	Very Low Risk
Undercroft 2	Pipe Gaskets	Presumed	Very Low Risk
Undercroft 3	Pipe Gaskets	Presumed	Very Low Risk
Undercroft 4	Pipe Gaskets	Presumed	Very Low Risk

RLL drawing 251084-RLL-25-XX-DR-O-0003 located in **Appendix A** shows location for these ducts.

2.4.3. Desk Study and Ground Investigation Report – Hydrock, dated June 2016

Hydrock undertook an initial desk study and subsequent ground investigation. Several sources of contamination were identified;

- Quarry backfill in the northwest of the site;
- Contamination associated with former boiler houses, hydrocarbon storage areas, workshops and electricity sub-station;
- Made Ground possibly including metals, metalloids, asbestos, PAH and petroleum hydrocarbons.
- An area Made Ground, located over an area of woodland called ‘The Tips (Coverts)’ adjacent to the eastern site boundary is shown on the BGS Survey Sheet No 265 for the area. This feature is located over an air shaft for Box Railway Tunnel and is anticipated to comprise excavated arisings for the air shaft.

A subsequent ground investigation was undertaken, which encountered Made Ground to between 0.30 and 2.10m bgl, generally comprising clays with demolition rubble and other anthropogenic material. Rare asbestos tiles were encountered within selected trial pits, but no significant quantities were encountered. Beneath the Made Ground lies destructured Forest Marble Limestone Formation eventually becoming competent limestone.

Asbestos was encountered in the following trial pits, both visually and from laboratory sampling;

Location	Depth (m bgl)	Description
TP01	0.20 <i>Laboratory sample</i>	Insulation Lagging (Chrysotile)
TP02	0.20 <i>Laboratory sample</i>	Loose Fibres (Chrysotile)
TP03	0.20 <i>Laboratory sample</i>	Loose Fibres (Chrysotile)
TP07	0.20 – 0.70	Possible asbestos tiles encountered within Made Ground stratum.
	0.50 <i>Laboratory sample</i>	Loose Fibres (Chrysotile, Amosite)
TP09	0.50 <i>Laboratory sample</i>	Loose Fibres (Chrysotile, Amosite)
TP10	0.15 - 0.45	Possible asbestos tiles encountered within Made Ground stratum.
	0.50 <i>Laboratory sample</i>	Loose Fibres (Chrysotile)
TP17	0.10 – 0.40	Possible asbestos tiles encountered within Made Ground stratum.
TP18	0.10 – 1.10	Possible asbestos tiles encountered within Made Ground stratum.
	0.50 <i>Laboratory sample</i>	Loose Fibres (Chrysotile)
TP21	0.20 <i>Laboratory sample</i>	Loose Fibres (Chrysotile)
TP22	0.15 – 0.35	Possible asbestos tiles encountered within Made Ground stratum.
TP23	0.10 – 0.45	Possible asbestos tiles encountered within Made Ground stratum.
TP26	0.10 – 0.40	Possible asbestos tiles encountered within Made Ground stratum.

RLL Drawing 251084-RLL-25-XX-DR-O-0003 located in **Appendix A** shows the location of these trial pits.

Elevated levels of petroleum hydrocarbons and PAH are present in select areas of site.

The report concluded that capping of Made Ground deposits or removal of contaminated soils across the site is required for development.

2.4.4. Supplementary Ground Investigation – Hydrock, dated June 2022

Additional areas of Made Ground were targeted by the 2022 investigation to delineate areas of previously encountered contamination, alongside targeting areas of previously identified asbestos. Further asbestos was encountered albeit in small quantities spread across the Made Ground at site.

Other contamination was not encountered aside from the contamination described in the original report. The report concluded several mitigation measures;

- Handpicking and disposal of visible fragments of asbestos cement (as far as reasonably practicable) from Made Ground. If significant quantities of visible asbestos are identified (where hand-picking is impractical), then offsite disposal to a registered waste facility will be required.
- The installation of a 600mm engineered cover system including an anti-dig membrane in all gardens and 450mm in landscaped public open space due to the presence of asbestos and benzo(a)pyrene in the Made Ground.
- The excavation of petroleum hydrocarbon hotspot(s) associated with the former boiler house and hydrocarbon storage areas (if recorded during groundworks) and replacement with clean soils.
- Investigation of electrical substation following decommissioning.

The Hydrock report states that site won topsoil should be suitable for reuse subject to agreement with the landscape architect. However, the CLEA assessment sheet for the topsoil dataset is missing from the report.

2.4.5. Asbestos Testing – Hydrock, Dated September 2022

A supplementary site investigation was undertaken in 2022 to investigate the area around TP01 from the 2016 investigation, with the aim to identify any gross contamination of asbestos insulation lagging due to the laboratory sample flagging containing ACM.

The additional investigation did not identify any asbestos either visually or from laboratory testing. The original logs from 2016 did not record any visible evidence of insulation in any locations. The report concluded that the most likely asbestos type to be encountered is disaggregated loose fibrous debris and asbestos cement tiles, present within the made ground soils across the site.

Hydrock recommend a site-wide discovery strategy, and all staff should hold Category A – Asbestos awareness training. All staff should be made aware of the possible presence for asbestos within the Made Ground soils anywhere on the site at any stage of the development (Demolition, Enablement and Construction).

2.4.6. Remediation Strategy – Hydrock Dated October 2023

The Hydrock remediation strategy outlines the following remedial works to render the site suitable for a residential end use:

- Asbestos discovery strategy and hand picking;
- Clean cover to all soft landscaped areas (600mm in private gardens and 450mm in POS) to protect end users from pervasive PAHs and asbestos fragments in the Made Ground;
- Removal, offsite disposal and verification of a hotspot of petroleum hydrocarbons in the area of TP18;
- CS1 ground gas conditions – No protection required;
- No radon protection required;
- No remediation regarding protection of controlled water is required;
- Further investigation for PCBs when the on-site electrical substation is decommissioned; and
- The site is likely to require protected water supply pipework. Subject to confirmation from the local water supply company.

RLL are unaware if this remedial strategy has been agreed with the Contaminated Land Officer at Wiltshire County Council.

2.5. Remaining Uncertainties

Sporadic evidence of Hard/Cement Type Material (Chrysotile) have been visibly identified within a number of exploratory hole locations across the site. Loose fibres have also been identified in samples of Made Ground.

The construction of methodology of buildings present at site has not been made available. Given the age of the buildings, it is possible that ACM may have been used in the formation of the concrete slabs or as permanent shuttering to foundations. Furthermore, a number of buildings on site have been demolished and it is not known if the slabs and foundations from these structures remain insitu.

3.0 Ground Investigation

3.1. Site Attendance

RLL attended the site on the 25th to the 27th of November 2025.

The fieldwork was supervised by RLL, an experienced engineer logged the exploratory holes to the requirements of BS 5930:2015+A1:2020. The proposed locations of the exploratory holes were determined by RLL in general accordance with BS 10175:2011+A2:2017 in order to assess the contamination of ground beneath site.

Trial pits referenced TP301 to TP331, were formed using a 20-tonne tracked 360 excavator with a 0.60m wide bucket. The trial pit locations are presented on Drawing 251084-RLL-25-XX-DR-O-0003 located in Appendix A.

The number and location of trial pits were limited due to extensive services (above ground and below ground) present at site, alongside thick vegetation.

Representative disturbed samples were taken and retained in airtight containers for environmental testing.

On completion, all trial pits were backfilled with materials arisings compacted in layers using the excavator bucket. The ground surface was left proud to accommodate future settlement of backfilled materials.

Trial Pit logs are presented within **Appendix B**, photographs of the trial pitting are presented in **Appendix C**.

Additional trial pits were undertaken of tarmac material to test for coal tar within the asphalt.

Also, samples of the topsoil present on site were collected for chemical analysis for metals, PAHs, asbestos and petroleum hydrocarbons.

3.2. Rationale

The rationale for each inspection pit is given below;

Location	Rationale / Target	Termination Depth (m)	Termination Reasoning
TP301	Tennis court.	1.70	Natural material comprising competent limestone.
TP302	Demolished building potential slab.	1.00	Natural material.
TP303	Demolished building potential slab.	0.90	Natural material.
TP304	Demolished building potential slab.	1.50	Natural material.
TP305	Demolished building potential slab.	1.00	Natural material.
TP306	Demolished building potential slab.	1.80	Natural material.
TP307	Demolished building potential slab.	1.40	Natural material.
TP308	Demolished building potential slab.	1.30	Natural material.
TP310	Demolished building potential slab.	1.51	Deep Concrete.
TP311	Demolished building potential slab.	1.63	Natural material.
TP312	Demolished building potential slab.	1.90	Natural material.
TP313	Demolished building potential slab.	1.90	Natural material.
TP316	Area of potential filled ground.	1.60	Natural material.
TP317	Target car park area.	1.80	Natural material.
TP321	Target yard area.	1.20	Natural material.
TP322	Inspecting the foundation of existing building.	1.60	Competent limestone.
TP324	Inspecting the foundation of existing building.	0.70	Natural material.
TP325	Inspecting the foundation of existing building.	0.94	Natural material.
TP327	Inspecting the foundation of existing building.	1.00	Natural material.
TP328	Inspecting the foundation of existing building.	0.80	Natural material.
TP329	Inspecting the foundation of existing building.	0.84	Natural material.

3.2.1. Laboratory Analysis

Laboratory testing was undertaken on the following samples;

- 2 No. samples of the topsoil screened for metals, PAHs, asbestos and petroleum hydrocarbons;

- 4 No. Samples of the asphalt from the site roadways screened for coal tar;
- 25 No. soil samples screened for the presence of asbestos; and
- 2 No. samples of fragments of potential cement bound asbestos sheeting (TP310 & TP311).

3.2.2. Constraints

A number of areas of the site were not accessible due to the presence of live (overhead and underground) services and dense vegetation. In summary the following areas were not assessable:

- Densely overgrown embankment on the northern site boundary adjacent to Box railway tunnel air shaft;
- Former building located on the northeast of the site due to low overhead cables;
- Large building in the south-central part of the site due to abundant live services; and
- Buildings in the southeast of the site where there appears to be a gas leak.

The location of these areas is shown on drawing 251084-RLL-25-XX-DR-O-0003 located in **Appendix A**.

Adjacent to the former garage building are 3 No. breather pipes potentially associated with venting fumes from fuel tanks. There is no evidence of any above or below ground fuel tanks in this area. The demolition contractor should be instructed to look for these during the site clearance. Should these tanks be found then RLL should be instructed to inspect the formation and undertake chemical verification to conform that there is no impact to the undelaying soils. The location of these breather pipes is shown in drawing 251084-RLL-25-XX-DR-O-0003 located in **Appendix A**.

3.3. Ground Conditions

3.3.1. Summary of Ground Conditions

Ground conditions encountered within the exploratory trial pits can be summarised below.

Depth (m)			Thickness (m)	Stratum
0.00	-	0.10-0.70	0.10-0.7	TOPSOIL - Dark brown slightly sandy slightly gravelly silty CLAY.

Depth (m)			Thickness (m)	Stratum
0.00	-	0.10-0.90	0.10-0.90	MADE GROUND: Firm (inferred) brown mottled grey and black slightly sandy gravelly CLAY with frequent fragments of brick, concrete, tiles, asphalt, and mudstone.
0.25-0.90	-	>0.70-1.90	>0.50	*Stiff light grey mottled orangish brown gravelly CLAY. FOREST MARBLE FORMATION – Mudstone.
0.3-0.76	-	0.7-1.7	>0.30-1.40	*Very dense light grey mottled orangish brown slightly clayey sandy GRAVEL of oolitic limestone. CLAY. FOREST MARBLE FORMATION – Limestone. TP301, TP302, TP303, TP316, TP322 and TP324 Only

*Base of member not proven.

Potential asbestos tile fragments were observed within Made Ground at depths between 0.15-0.9 m bgl at two locations (TP310 & TP311). In both locations the tiles encountered were singular and not indicative of wholesale disposal of ACM.

3.3.2. Groundwater

Groundwater was not encountered in any of the recent trial pits.

3.3.3. Obstructions

It was not possible to prove natural ground in TP310 due to the presence of concrete at depth. RLL were reluctant to excavate through this concrete with the hydraulic breaker as it may potentially be associated with an entrance to the MoD bunker below the site (located just beyond the site boundary).

3.3.4. Demolished Buildings

As detailed in the Table in Section 3.2 a number of trial pits were excavated to target the location of demolished buildings. A number of slabs and foundations were found to be intact albeit buried below a veneer of topsoil. These remnant slabs/foundations are outlined in red on drawing 251084-RLL-25-XX-DR-O-0003 located in **Appendix A**. Photographs of these trial pits are located in **Appendix C**. The foundations/slabs that were found to be removed are outlined in green on this drawing.

The table below details the slabs foundations recorded in these locations:

Location	Slab / Foundation Description	Depth to Top of Structure (m bgl)	Depth to Base of Structure (m bgl)
TP302	Strong off-white concrete – No shuttering material present	0.40	0.55
TP304	Strong off-white concrete – No shuttering material present	0.30	0.45
TP305	Strong off-white concrete – No shuttering material present	0.60	0.80
TP307	Strong off-white concrete – No shuttering material present	0.50	0.65
TP308	Strong off-white concrete – No shuttering material present	0.50	0.65
TP312	Strong off-white concrete with pipe in centre – No shuttering material present	0.40	0.85

3.3.5. Current Buildings

As detailed in the Table in Section 3.2 a number of trial pits were excavated down the side of the remaining buildings to look for the presence of asbestos shuttering. Photographs of these trial pits are located in **Appendix C**. The table below details the depth of the footings recorded:

Location	Description of Foundation	Depth to Base of Foundation (m bgl)
TP322	Strong off-white concrete – No shuttering material present	Not Recorded
TP324	Strong off-white concrete – No shuttering material present	0.45
TP325	Strong off-white concrete – No shuttering material present	0.60
TP327	Strong off-white concrete – No shuttering material present	Not Recorded
TP328	Strong off-white concrete – No shuttering material present	0.50
TP329	Strong off-white concrete – No shuttering material present	Not Recorded

3.3.6. Site Roadways

Samples of the asphalt were collected from the site roadways and screened for the presence of coal tar. Samples were collected from locations TP301, TP317, TP330 and TP331.

3.3.7. Topsoil

2 No. samples were collected of the topsoil present above the Made Ground. These samples were collected from TP313 at 0.5m and TP322 at 0.1m.

4.0 Chemical Testing

4.1. General

The laboratory chemical test results are located in **Appendix D**.

4.2. Asbestos

4.2.1. Bulk Asbestos

The sample of potential asbestos cement sheeting from TP310 & TP311 have been confirmed to be cement containing chrysotile asbestos fibres.

4.2.2. Soil Samples

Of the 25 Made Ground soil samples screened for asbestos, no asbestos fibres were identified in any of the samples.

4.3. Topsoil

Hydrock only collected 1 No. sample of the topsoil present on site (TP110). The 2011 Entec report included samples of the topsoil present on site. Hydrock has included the Entec data in their assessment, however as we do not have the Entec exploratory hole logs we do not know what material these samples relate to.

RLL collected 2 No. samples from the veneer of topsoil present above the Made Ground (TP322 and TP313). The results of the chemical sampling for these locations recorded the following exceedances:

Location	Depth (m bgl)	Strata	Chemical of Concern	LQM Screening value (mg/kg)	Recorded Concentration (mg/kg)
TP322	0.1	Topsoil	Benzo[b]fluoranthene	2.6	8.6
			Benzo[a]pyrene	2.2	6.3
			Dibenz(a,h)Anthracene	0.24	0.96

The Hydrock sample of topsoil from TP110 and the RLL sample from TP313 did not record any exceedances. Therefore, with additional chemical testing of the topsoil on site to increase the sample population RLL could then run the US⁹⁵ (95% upper confidence limit) on the dataset and may be able to demonstrate the topsoil is suitable for reuse.

Coal Tar was not recorded in any of the 4 No. samples screened.

5.0 Conclusions

5.1. Asbestos

The recent RLL ground investigation only found two instances where cement bound asbestos sheeting fragments containing chrysotile. No asbestos fibres were recorded in any of the RLL Made Ground samples. Furthermore, the Hydrock investigations only identified cement bound asbestos sheeting in 10 locations and asbestos fibres in 11 locations.

RLL drawing 251084-RLL-25-XX-DR-O-0004 located in **Appendix A** shows all the occurrences where asbestos has been identified on site (Hydrock and RLL ground investigations).

Groundworkers should have asbestos awareness training. RLL recommend a discovery strategy for visible asbestos by hand picking where exposed, however we see no benefit in turning over all the Made Ground on site looking for asbestos fragments as the fibres previously recorded will be present. Picked cement bound asbestos sheeting and tiles should be removed off site to a suitable disposal facility.

There is a requirement for a clean cover to all soft landscaped areas on site where Made Ground is present. This clean cover should include a basal anti-dig marker layer to prevent end users excavating through the clean cover and potentially exposing cement bound asbestos fragments or fibres.

5.2. Hotspot

There is a hotspot of petroleum hydrocarbons associated with Hydrock TP18. The impacted material will require excavation and disposal off-site. The excavation should be chemically verified to confirm all impacted material has been successfully removed. The resulting excavation should be chemically suitable material.

5.3. Clean Cover

The site is a pervasive source of PAHs, therefore there is a requirement for a clean cover system to soft landscaped areas where Made Ground is present. It is anticipated that 600mm cover in private gardens and 450mm in POS will be appropriate. A basal anti dig marker membrane should be included to prevent site end users excavating into the Made Ground located below the cover.

In areas of cut where Made Ground is completely removed there would be no requirement for a clean cover system. In this instance only a nominal topsoil thickness would be required. In order to demonstrate this in the remediation verification report RLL should be engaged to inspect these areas.

There will be a requirement for verification of the clean cover, it is anticipated that the NHBC would expect to see plots verified on a 1 in 3 basis and POS on a 25m grid spacing.

In areas of protected or retained trees it will not be possible to achieve 600mm or 450mm cover, therefore the remediation strategy will need to set out a reduced 100mm geogrid cover system in root protection zones. This detail will need approval by Wiltshire County Council Tree Protection Officer.

Where possible site levels should be lifted to accommodate the clean cover recommend without the excavation of Made Ground.

Based on the limited chemical testing of the topsoil present on site there are elevated PAHs present, however with additional chemical testing of the topsoil present we may be able to demonstrate this material is suitable for use. Undertaking this additional testing does not guarantee this material could be reused and for pre purchase costing purposes RLL recommend that TW allow for importation of chemically suitable topsoil.

Site won natural cohesive soils from the south of the site (generated by foundation and service excavations) is chemically suitable for use in the clean cover.

5.4. Controlled Water

The site is not a risk to controlled water, and no remedial action is required for controlled water.

5.5. Ground Gases

The site is classified Characteristic Situation 1 where no ground gas protection measures are required. Furthermore, no radon protection measures are required.

5.6. Water Supply Pipework

Due to the elevated PAHs in the Made Ground it is anticipated that there will be a requirement for barrier water supply pipework. It is recommended that TW enter into early discussions with the local water supply company to confirm.

5.7. Further work

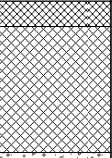
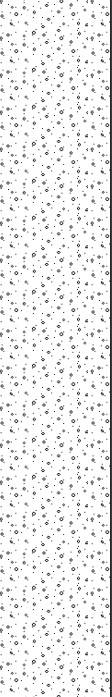
RLL recommend the following further works:

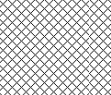
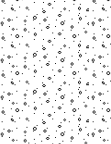
- Additional sampling (by hand pitting) of the topsoil present on site to increase the sample population to try to demonstrate the topsoil present is suitable for reuse;
- RLL to inspect the formation post removal of the foundations/floor slabs for signs of gross contamination;
- Attempt to locate any fuel tanks associated with the 3 No. breather pipes observed near the garage building;
- Post demolition trial pitting to check for the presence of PCBs in the area of the sub station once decommissioned;
- Prepare a Remediation Strategy and Verification Plan (RSVP) for regulatory approval;
- The cut and fill model should be carried out with input from RLL with regard to the management of Made Ground on site;
- Prepare a Materials Management Plan (MMP) in accordance with the CL:AIRE DoWCoP for the reuse of arisings on site and import of material;
- Verification and mitigation works;
- Should any visible or olfactory evidence of gross contamination be encountered during the ground works then RLL should be contact to inspect and provide advise and if necessary, update the RSVP.

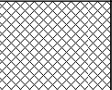
Appendices

Appendix A: Drawings

Appendix B: Trial Pit Logs

					Trial Pit Log					TrialPit No TP301 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:			Date 27/11/2025	
Location: Corsham							Dimensions (m): 2.00			Scale 1:15	
Client: Taylor Wimpey							Depth 1.70			Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike		
	Depth	Ref.	Type	Results							
	0.05	1	ES			0.05	MADE GROUND. Asphalt.				
	0.20	2	D			0.30	MADE GROUND: Firm (inferred) slightly sandy very gravelly CLAY. Gravel is angular to subangular fine to coarse with frequent cobbles and boulders of concrete, brick, and limestone.				
							1.70	Very dense light grey mottled orangish brown slightly clayey sandy angular and subangular fine to coarse GRAVEL of oolitic limestone with medium cobble content. Cobbles are angular and subangular of limestone. (Forest Marble Formation).			
							End of Pit at 1.700m				
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated upon refusal in competent limestone. 4] Trial Pit backfilled with arisings.											
Stability: Stable											

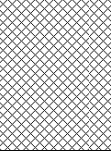
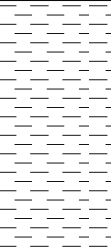
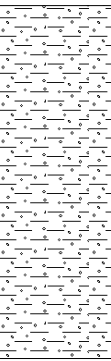
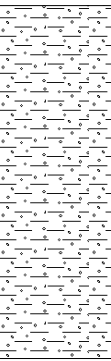
					Trial Pit Log					TrialPit No TP302 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:			Date 25/11/2025	
Location: Corsham							Dimensions (m): 2.00			Scale 1:15	
Client: Taylor Wimpey							Depth 1.00			Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike		
	Depth	Ref.	Type	Results							
0.60 1	1	D				0.20	MADE GROUND. Grass over brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.				
							MADE GROUND. Firm brown slightly sandy slightly gravelly silty CLAY with occasional brick and fragments of brick, glass tile and concrete. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.				
							0.40m to 0.55m: concrete footing (150mm x 600mm x 1600mm) inside of pit. No shutting material present.				
						0.70	Dense light grey mottled orangish brown slightly clayey sandy angular and subangular fine to coarse GRAVEL of oolitic limestone with medium cobble content. Cobbles are angular and subangular of limestone. (Forest Marble Formation).				
						1.00	End of Pit at 1.000m				
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.											
Stability: Stable											

					Trial Pit Log					TrialPit No TP303 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:			Date 25/11/2025	
Location: Corsham							Dimensions (m): 2.00			Scale 1:15	
Client: Taylor Wimpey							Depth 0.90			Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike		
	Depth	Ref.	Type	Results							
1	0.30	1	D			0.20	MADE GROUND. Medium dense grey angular and subangular medium and coarse GRAVEL of mudstone.				
							MADE GROUND. Firm brown slightly sandy gravelly CLAY with low cobble content and with occasional brick and brick fragments, rare ceramic tile fragments. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of limestone and mudstone. Cobbles are angular and subangular of limestone and mudstone.				
						0.50	Dense light grey mottled orangish brown slightly clayey sandy angular and subangular fine to coarse GRAVEL of oolitic limestone with medium cobble content. Cobbles are angular and subangular of limestone. (Forest Marble Formation).				
						0.90	End of Pit at 0.900m				
2											
3											

Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.

Stability: Stable



					Trial Pit Log			TrialPit No TP304 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 25/11/2025	
Location: Corsham							Dimensions (m): 0.00 2.00		Scale 1:15	
Client: Taylor Wimpey							Depth 1.50		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
1	0.45	1	D			0.30	MADE GROUND. Medium dense grey angular and subangular medium and coarse GRAVEL of mudstone.			
							Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of limestone. (Forest Marble Formation).			
							0.30m to 0.45m: concrete footing (150mm x 300mm x 600mm) inside of pit. No shuttering material present			
2						0.80	Stiff light grey mottled orangish brown gravelly CLAY with occasional cobble content. Gravel is angular and subangular fine to coarse of oolitic limestone. Cobbles are angular and subangular of limestone. (Forest Marble Formation).			
							End of Pit at 1.500m			
3										

Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.

Stability: Stable

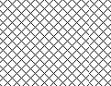
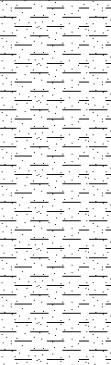


					Trial Pit Log					TrialPit No TP306 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:			Date 27/11/2025	
Location: Corsham							Dimensions (m): 0.90 2.00			Scale 1:15	
Client: Taylor Wimpey							Depth 1.80			Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike		
	Depth	Ref.	Type	Results							
	0.50	1	D		0.18	TOPSOIL: Dark brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone. Frequent rootlets were observed.					
					0.70	MADE GROUND. Black sandy subangular and subrounded fine to coarse GRAVEL of concrete and asphalt.					
						1.80	Firm (inferred) mottled grey and brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).				
							End of Pit at 1.800m				
3											

Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.

Stability: Stable

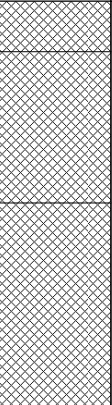
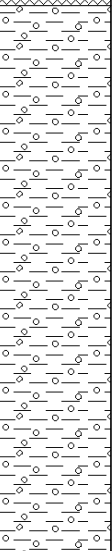


					Trial Pit Log			TrialPit No TP311 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 26/11/2025	
Location: Corsham							Dimensions (m): 2.00 		Scale 1:15	
Client: Taylor Wimpey							Depth 1.63		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
1	0.45	2	D			0.18	TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone. Frequent rootlets were observed.			
						0.18	MADE GROUND: Firm (inferred) dark brown mottled black and grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse with occasional cobbles of brick, concrete, tiles, asphalt, and mudstone.			
						0.40	MADE GROUND: Firm (inferred) orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse with occasional cobbles of brick, concrete, tiles, asphalt, and mudstone. Several fragments of asbestos corrugated tiles were identified.			
	0.70	1	D			0.90	Firm (inferred) brown mottled grey slightly gravelly sandy silty CLAY. Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).			
					1.63	End of Pit at 1.630m				
2										
3										

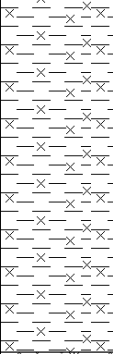
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.

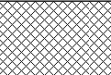
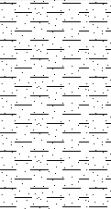
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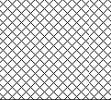
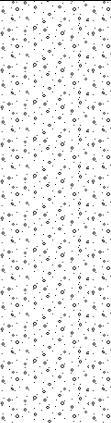


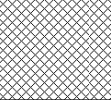
					Trial Pit Log			TrialPit No TP312 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 26/11/2025	
Location: Corsham							Dimensions (m):		Scale 1:15	
Client: Taylor Wimpey							Depth 1.90		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
	0.50	1	D			0.10	TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone. Frequent rootlets were observed. MADE GROUND: Soft to firm (inferred) brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse with frequent cobbles of brick, concrete, tiles, asphalt, and mudstone. Frequent rootlets and occasional roots were observed.			
						0.40	MADE GROUND: Firm (inferred) brown mottled orangish brown and black slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse with frequent cobbles of brick, concrete, tiles, asphalt, clinker, and mudstone. <i>0.40m to 0.85m: Large concrete block (0.80m x 0.45m x 0.80m) with a large metal pipe in the centre.</i>			
						0.81	Firm (inferred) grey mottled brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).			
						1.90	End of Pit at 1.900m			
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.										
Stability: Stable										

					Trial Pit Log					TrialPit No TP313 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:			Date 26/11/2025	
Location: Corsham							Dimensions (m): 2.00			Scale 1:15	
Client: Taylor Wimpey							Depth 1.90			Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike		
	Depth	Ref.	Type	Results							
1	0.05	2	ES			0.09	TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse Gravel is subangular fine to coarse of mudstone. Frequent rootlets were observed.				
	0.20	1	D			0.29	MADE GROUND: Soft to firm (inferred) brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse with frequent cobbles of brick, concrete, tiles, asphalt, and mudstone. Frequent rootlets and occasional roots were observed.				
										Firm (inferred) grey mottled brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).	
2						1.90	End of Pit at 1.900m				
3											
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.											
Stability: Stable											

					Trial Pit Log			TrialPit No TP316 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 25/11/2025
Location: Corsham					Dimensions (m):		2.00		Scale 1:15
Client: Taylor Wimpey					Depth 1.60				Logged RH
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike
	Depth	Ref.	Type	Results					
	0.60	1	D			0.70	TOPSOIL. Grass over brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.		
						1.60	Dense light grey mottled orangish brown slightly clayey sandy angular and subangular fine to coarse GRAVEL of oolitic limestone with medium cobble content. Cobbles are angular and subangular of limestone. (FOREST MARBLE FORMATION)		
								End of Pit at 1.600m	
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.									
Stability: Stable									

					Trial Pit Log			TrialPit No TP321 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 26/11/2025	
Location: Corsham							Dimensions (m): 2.00		Scale 1:15	
Client: Taylor Wimpey							Depth 1.20		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
1	0.30	1	D			0.15	MADE GROUND. Strong cream CONCRETE.			
							MADE GROUND: Firm (inferred) dark brown mottled black and grey slightly sandy gravelly CLAY. Grave is angular to subangular fine to coarse with occasional cobbles of brick, concrete, tiles, asphalt, and mudstone. Strong hydrocarbon odour was observed.			
							0.78	Firm (inferred) brown mottled grey slightly gravelly sandy silty CLAY. Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).		
							1.20	End of Pit at 1.200m		
2										
3										
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.										
Stability: Stable										
										

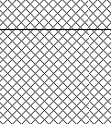
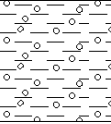
					Trial Pit Log			TrialPit No TP322 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 27/11/2025	
Location: Corsham							Dimensions (m): 0.90 2.00		Scale 1:15	
Client: Taylor Wimpey							Depth 1.60		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
1	0.10	3	ES			0.20	TOPSOIL: Dark brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of limestone and mudstone. Frequent rootlets were observed.			
	0.30	1	D			0.76	MADE GROUND: Firm (inferred) slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse with frequent cobbles and boulders of concrete, brick, and limestone.			
	0.80	2	D				1.60	Very dense light grey mottled orangish brown slightly clayey sandy angular and subangular fine to coarse GRAVEL of oolitic limestone with medium cobble content. Cobbles are angular and subangular of limestone. (Forest Marble Formation).		
2	End of Pit at 1.600m									
3										
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated upon refusal in competent limestone. 4] Trial Pit backfilled with arisings.										
Stability: Stable										
										

					Trial Pit Log			TrialPit No TP325 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 27/11/2025	
Location: Corsham							Dimensions (m): 0.90 2.00		Scale 1:15	
Client: Taylor Wimpey							Depth 0.94		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
1	0.30	1	D			0.20	TOPSOIL: Dark brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of limestone and mudstone. Frequent rootlets were observed.			
							MADE GROUND: Firm (inferred) brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse with frequent cobbles and occasional boulders of brick, concrete, tiles, limestone and mudstone.			
						0.50	MADE GROUND. Strong cream CONCRETE.			
						0.60	Firm (inferred) mottled grey and brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of limestone and mudstone. (FOREST MARBLE FORMATION).			
						0.94	End of Pit at 0.940m			
2										
3										

Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.

Stability: Stable

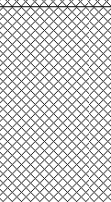
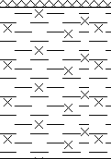


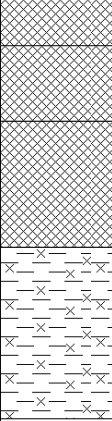
					Trial Pit Log			TrialPit No TP327 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 27/11/2025	
Location: Corsham							Dimensions (m): 2.00		Scale 1:15	
Client: Taylor Wimpey							Depth 1.00		Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
1						0.06	MADE GROUND. Strong cream CONCRETE.			
						0.25	MADE GROUND: Firm (Inferred) light brown slightly silty very sandy GRAVEL. Sand is fine to coarse. Gravel is angular and subangular fine to coarse with frequent cobbles of brick, concrete, tiles, asphalt, and mudstone.			
	0.35	2	D			0.76	Firm (inferred) mottled grey and brown slightly sandy gravelly silty CLAY. Sand is fine to coarse Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).			
	0.50	1	D			1.00	End of Pit at 1.000m			
2										
3										

Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.

Stability: Stable



					Trial Pit Log					TrialPit No TP328 Sheet 1 of 1	
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:			Date 27/11/2025	
Location: Corsham							Dimensions (m): 0.90 2.00			Scale 1:15	
Client: Taylor Wimpey							Depth 0.80			Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike		
	Depth	Ref.	Type	Results							
0.90 2.00	0.30	1	D		0.08 0.10	TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of mudstone. Frequent rootlets were observed. MADE GROUND: Firm (inferred) dark brown to brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse with frequent cobbles of brick, concrete, tiles, asphalt, metal and mudstone. MADE GROUND. Strong cream CONCRETE.	 				
						0.50	Firm (inferred) mottled grey and brown slightly sandy gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone. (FOREST MARBLE FORMATION).				
						0.80	End of Pit at 0.800m				
1											
2											
3											
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.											
Stability: Stable											

					Trial Pit Log			TrialPit No TP329 Sheet 1 of 1		
Project Name: RAF Rudloe					Project No. P25-1084		Co-ords: Level:		Date 27/11/2025	
Location: Corsham					Dimensions (m):		2.00		Scale 1:15	
Client: Taylor Wimpey					Depth 0.84				Logged RH	
Scale	Samples & In Situ Testing				Level (m)	Depth (m)	Stratum Description	Legend	Water Strike	
	Depth	Ref.	Type	Results						
	0.40	1	D			0.10	TOPSOIL: Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarseGravel is subangular fine to coarse of mudstone. Frequent rootlets were observed. MADE GROUND. Strong cream CONCRETE.			
						0.25	MADE GROUND: Firm (inferred) brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse with ocassional cobbles of brick, concrete, tiles, limestone, and mudstone.			
						0.50	Firm (inferred) mottled grey and brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of limestone and mudstone. (FOREST MARBLE FORMATION).			
						0.84	End of Pit at 0.840m			
Remarks: 1] Densities of granular deposits are estimates only and denoted in brackets. 2] No groundwater encountered. 3] Trial pit terminated within natural material. 4] Trial Pit backfilled with arisings.										
Stability: Stable										
										

Appendix C: Trial Pit Photographs



Photograph 1 – Side view of TP301 and its arisings, excavated to 3.70m bgl.



Photograph 2 – Side view of TP302 and its arisings, excavated to 1.00m bgl.



Photograph 3 – Side view of TP303 and its arisings, excavated to 0.90m bgl.



Photograph 4 – Side view of TP304 and a concrete footing, excavated to 1.50m bgl.



Photograph 5 – Side view of TP305 and its arisings, excavated to 1.00m bgl.



Photograph 6 – Side view of TP306 and its arisings, excavated to 1.80m bgl.



Photograph 7 – Side view of TP307 and its arisings, excavated to 1.40m bgl.



Photograph 8 – Side view of TP308 and its arisings, excavated to 1.300m bgl.



Photograph 9 – Concrete slab excavated from TP308.



Photograph 10 – Side view of TP310 and its arisings, excavated to 1.51m bgl.



Photograph 11 – Side view of TP311 and its arisings, excavated to 1.63m bgl.



Photograph 12 – Side view of TP312 and its arisings, excavated to 1.90m bgl.



Photograph 13 – Concrete footing found in of TP312.



Photograph 14 – Side view of TP313 and its arisings, excavated to 1.90m bgl.



Photograph 15 – Side view of TP316 and its arisings, excavated to 1.60m bgl.



Photograph 16 – Side view of TP317, excavated to 1.80m bgl.



Photograph 17 – Side view of TP321 and its arisings, excavated to 1.20m bgl.



Photograph 18 – Side view of TP322 and its arisings, excavated to 1.60m bgl.



Photograph 19 – Side view of TP324, excavated to 0.70m bgl.



Photograph 20 – Side view of TP325 and its arisings, excavated to 0.94m bgl.



Photograph 21 – Side view of TP327 and its arisings, excavated to 1.00m bgl.



Photograph 22 – Side view of TP328 and its arisings, excavated to 0.80m bgl.



Photograph 23 – Side view of TP329 and its arisings, excavated to 0.84m bgl.

Appendix D: Laboratory Data

Client: Rodgers Leak Environmental	LabJob No.:												25-39279	25-39278	
	Lab Sample ID.:												2062326	2062327	Hydrock
	Client Sample Ref.:												7P222	7P312	TP110
	Sample Type:												SOIL	SOIL	SOIL/110
	Top Depth (m):												0.1	0.1	0.2
	Bottom Depth (m):												0.1	0.5	0.2
	Date Sampled:												27-Nov-2025	27-Nov-2025	26/05/2022
Asbestos Lab:												DURHAM	DURHAM		
S4UL Table 4: GAC Commercial Criteria															
Determinand	Accred.	SOP	Units	LOD	No. of Samples	No. of Samples >LOD	No. of Samples >WQS	Min	Max	Average - all	Lower 95% percentile	Upper 95% percentile	Percentage of exceedances (%)		
ACM Type	U	2192	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	
Asbestos Identification	U	2192	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No Asbestos Detected	
Moisture	N	2030	%	0.02	3	0	0	8.70	36.00	25.57	11.03	35.60	0.00	36	
Soil Colour	N	2040	N/A	3	0	0	0							32	
Other Material	N	2040	N/A	3	0	0	0							Black	
Soil Texture	N	2040	N/A	3	0	0	0							Stones and Roots	
pH	M	2010		4	3	0	0	7.80	9.00	8.20	7.8	8.88	0.00	7.8	
Boron (Hot Water Soluble)	M	2020	mg/kg	0.40	3	3	0	1.00	1.70	1.33	1.03	1.66	0.00	290	
Cyanide (Total)	M	2300.00	mg/kg	0.50	3	1	0	0.50	1.00	0.67	0.5	0.95	0.00	< 0.50	
Arsenic	M	2450.00	mg/kg	0.50	3	3	0	10.00	15.00	13.00	10.4	14.90	0.00	37	
Beryllium	U	2455	mg/kg	0.50	3	3	0	0.80	1.10	0.93	0.809	1.08	0.00	17	
Cadmium	M	2450	mg/kg	0.1	3	2	0	0.20	0.40	0.37	0.223	0.48	0.00	26	
Chromium	M	2450	mg/kg	0.5	3	3	0	12.00	26.00	19.67	12.9	25.50	0.00	910	
Copper	M	2450	mg/kg	0.5	3	3	0	14.00	34.00	18.67	14.4	23.40	0.00	2400	
Mercury	M	2450	mg/kg	0.05	3	1	0	0.05	0.30	0.14	0.052	0.28	0.00	40	
Nickel	M	2450	mg/kg	0.5	3	3	0	17.00	20.00	18.00	17	19.70	0.00	130	
Lead	M	2450	mg/kg	0.5	3	3	0	29.00	110.00	58.67	29.8	102.70	0.00	200	
Selenium	M	2450	mg/kg	0.25	3	2	0	0.62	1.50	1.04	0.658	1.45	0.00	250	
Vanadium	U	2450	mg/kg	0.5	3	3	0	33.00	52.00	43.33	34.2	51.37	0.00	410	
Zinc	M	2450	mg/kg	0.5	3	3	0	60.00	90.00	76.67	61.1	90.20	0.00	3700	
Chromium (Hexavalent)	M	2450	mg/kg	0.5	3	0	0	0.50	1.80	0.93	0.5	1.67	0.00	6	
Aliphatic VPH >C5-C8	N	2680	mg/kg	0	3	0	0	0.00	0.05	0.03	0.0059	0.05	0.00	42	
Aliphatic VPH >C6-C7	N	2680	mg/kg	0.05	2	0	0	0.05	0.05	0.05	0.05	0.05	0.00	100	
Aliphatic VPH >C7-C8	M	2680	mg/kg	0.05	2	0	0	0.05	0.05	0.05	0.05	0.05	0.00	100	
Aliphatic VPH >C8 (Sum)	M	2680	mg/kg	0.1	3	0	0	0.00	0.10	0.07	0.0109	0.10	0.00	100	
Aliphatic VPH >C9-C10	M	2680	mg/kg	0.05	3	0	3	0.00	0.05	0.03	0.0059	0.05	100.00	27	
Aliphatic VPH >C10-C11	M	2680	mg/kg	0.05	3	0	0	0.25	0.25	0.25	0.25	0.25	0.00	80	
Aliphatic VPH >C12-C12	M	2680	mg/kg	2	3	0	0	1.00	2.00	1.67	1.1	2.00	0.00	130	
Aliphatic VPH >C12-C16	N	2680	mg/kg	2	3	0	0	2.00	2.00	2.00	2	2.00	0.00	1100	
Aliphatic VPH >C16-C21	N	2680	mg/kg	2	3	2	0	5.00	8.00	6.57	5.17	7.87	0.00	6500	
Aliphatic VPH >C21-C35	N	2680	mg/kg	3	3	2	0	5.00	8.00	6.57	5.17	7.87	0.00	6500	
Aliphatic VPH >C35-C40	N	2680	mg/kg	10	3	0	0	8.40	10.00	9.47	8.56	10.00	0.00	6500	
Aliphatic VPH >C40-C44	M	2680	mg/kg	1	2	1	0	1.00	1.00	1.00	1.00	1.00	0.00	6500	
Aliphatic VPH >C44-C48	M	2680	mg/kg	2	2	1	0	7.00	13.00	10.00	7.2	12.70	0.00	110	
Total Aliphatic VPH >C10-C40	M	2680	mg/kg	10	2	1	0	10.00	13.00	11.50	10.15	12.85	0.00	130	
Total Aliphatic VPH >C10-C44	M	2680	mg/kg	10	2	1	0	10.00	13.00	11.50	10.15	12.85	0.00	130	
Aromatic VPH >C5-C7	M	2680	mg/kg	0.05	3	0	0	0.00	0.05	0.03	0.0059	0.05	0.00	70	
Aromatic VPH >C7-C8	U	2680	mg/kg	0.05	2	0	0	0.05	0.05	0.05	0.05	0.05	0.00	130	
Aromatic VPH >C8-C10	M	2680	mg/kg	0.05	2	0	0	0.05	0.05	0.05	0.05	0.05	0.00	34	
Total Aromatic VPH >C5-C10	N	2680	mg/kg	0.25	3	0	0	0.00	0.25	0.17	0.0259	0.25	0.00	< 0.25	
Aromatic VPH >C10-C12	M	2680	mg/kg	2	3	0	0	0.00	2.00	0.27	0.2099	2.00	0.00	74	
Aromatic VPH >C12-C16	N	2680	mg/kg	2	3	1	0	2.00	3.40	2.70	2.07	3.33	0.00	140	
Aromatic VPH >C16-C21	N	2680	mg/kg	2	3	1	0	2.00	3.40	2.70	2.07	3.33	0.00	140	
Aromatic VPH >C21-C35	M	2760	µg/g	2	3	1	0	1.00	26.00	9.67	1.1	23.60	0.00	260	
Aromatic VPH >C35-C40	M	2760	µg/g	2	3	2	0	2.00	91.00	32.40	2.22	82.32	0.00	1100	
Aromatic VPH >C40-C44	M	2760	µg/g	1	3	2	0	4.40	24.00	12.13	4.78	22.40	0.00	1100	
Aromatic VPH >C44-C48	M	2760	µg/g	1	3	0	0	1.00	8.00	3.33	1	7.30	0.00	1100	
Total Aromatic VPH >C10-C35	M	2760	µg/g	4	2	2	0	6.20	120.00	55.10	11.89	114.31	0.00	1200	
Total Aromatic VPH >C10-C40	M	2760	µg/g	2	2	2	0	11.00	140.00	75.50	17.45	133.10	0.00	600	
Total Aromatic VPH >C10-C40	M	2760	µg/g	10	2	0	0	11.00	140.00	75.50	17.45	133.55	0.00	140.00	
Total VPH >C5-C10	M	2760	µg/g	0.5	2	0	0	0.50	0.50	0.50	0.5	0.50	0.00	< 0.50	
Total VPH >C10-C35	M	2800	mg/kg	10	2	2	2	13.00	130.00	71.50	18.85	124.15	100.00	130	
Total VPH >C10-C40	N	2800	mg/kg	10	2	2	0	19.00	160.00	89.50	26.05	152.95	0.00	160.00	
Total VPH >C10-C44	N	2800	mg/kg	10	2	2	0	20.00	160.00	90.00	27	153.00	0.00	160.00	
Fraction of Organic Carbon	M	2625		0.001	3	1	0	0.02	0.25	0.11	0.0277	0.23	0.00	0.25	
Naphthalene	M	2800	mg/kg	0.1	3	1	0	0.05	0.50	0.27	0.057	0.48	0.00	15.0	
Acenaphthylene	N	2800	mg/kg	0.1	3	1	0	0.05	0.13	0.09	0.055	0.13	0.00	0.13	
Acenaphthene	M	2800	mg/kg	0.1	3	1	0	0.05	0.27	0.14	0.055	0.25	0.00	0.27	
Fluorene	M	2800	mg/kg	0.1	3	1	0	0.05	0.21	0.12	0.055	0.20	0.00	0.21	
Phenanthrene	M	2800	mg/kg	0.1	3	2	0	0.10	3.30	1.28	0.135	3.02	0.00	95	
Anthracene	M	2800	mg/kg	0.1	3	1	0	0.05	0.75	0.30	0.055	0.69	0.00	0.75	
Fluoranthene	M	2800	mg/kg	0.1	3	3	0	0.14	6.90	2.71	0.236	6.32	0.00	6.90	
Pyrene	M	2800	mg/kg	0.1	3	3	0	0.10	5.90	2.50	0.254	6.33	0.00	6.90	
Benzo[a]anthracene	M	2800	mg/kg	0.1	3	2	0	0.10	4.40	1.80	0.179	4.45	0.00	7.2	
Chrysene	M	2800	mg/kg	0.1	3	2	0	0.10	5.40	2.11	0.172	4.94	0.00	5.40	
Benzo[b]fluoranthene	M	2800	mg/kg	0.1	3	2	1	0.10	8.60	3.30	0.21	7.86	33.33	2.6	
Benzo[k]fluoranthene	M	2800	mg/kg	0.1	3	2	0	0.10	2.70	1.17	0.162	2.50	0.00	7.7	
Benzo[a]pyrene	M	2800	mg/kg	0.1	3	2	1	0.10	6.30	2.50	0.2	5.78	33.33	2.2	
Indeno[1,2,3-cd]pyrene	M	2800	mg/kg	0.1	3	2	0	0.10	4.70	1.80	0.151	4.29	0.00	4.70	
Benzo[e]pyrene	M	2800	mg/kg	0.1	3	1	0	0.05	0.96	0.37	0.085	0.87	33.33	0.24	
Benzo[g]herylene	M	2800	mg/kg	0.1	3	2	0	0.10	4.50	1.81	0.174	4.13	0.00	4.50	
Total Of 16 PAHs	N	2800	mg/kg	2	3	2	0	2.00	55.00	21.94	2.681	50.38	0.00	55.00	
Total Phenols	M	2920	mg/kg	0.1	2	1	0	0.10	0.30	0.20	0.11	0.29	0.00	280	



Interim Report

Report No.: 25-39279-0

Initial Date of Issue:

Re-Issue Details:

Client *Rodgers Leask Environmental*

Client Address: *Office 225
2430/2440 Aztec West
Almondsbury
Bristol
BS32 4AQ*

Contact(s): *Andy Jackson
Elliot Sampson
Ruth Hardy*

Project *P25-1084*

Quotation No.: **Date Received:** 05-Dec-2025

Order No.: RLL 25-12-10 **Date Instructed:** 05-Dec-2025

No. of Samples: 33

Turnaround (Wkdays): 10 **Results Due:** 18-Dec-2025

Date Approved:

Approved By:

Details:

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Please note that the interim data available has passed our Quality Control Criteria but has not been verified by an approved signatory and may be subject to amendment on approval. Chemtest cannot therefore be held responsible for decisions made on interim data sets but only for the data submitted on a final report containing an approval date and signature.

Bulk Identification Certificate

Client: Rodgers Leask Environmental
Date Sampled: 27-Nov-2025
Date Received: 05-Dec-2025

Project: P25-1084
Job Number: 25-39279
Date Reported:

Chemtest Sample ID	Clients Sample ID	Clients Sample Ref.	Client Reference	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
2062352	D	D	TP311	0.7	0.7	2185	U	NEW-ASB	Cement	Chrysotile
2062355	D	D	TP310	0.5	0.5	2185	U	NEW-ASB	Cement	Chrysotile

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Bulk sample disclaimer: Material type reported is based on the opinion of the analyst and is outside the scope of UKAS accreditation.

All asbestos bulk samples, sub-sampled soils and containers associated with asbestos-containing samples are retained for 6 months. Containers from non-asbestos samples are disposed of after 30 days.

Results - Miscellaneous Solid

Project: P25-1084

Client: Rodgers Leask Environmental	Chemtest Job No.:				25-39279	25-39279	25-39279	25-39279
Quotation No.:	Chemtest Sample ID.:				2062328	2062329	2062330	2062331
Order No.: RLL 25-12-10	Client Sample Ref.:				TARMAC C	ES	TARMAC A	TARMAC B
	Client Sample ID.:				ES	ES	ES	ES
	Client Reference:				TP301	TP317	TP330	TP331
	Sample Type:				MISCSOLID	MISCSOLID	MISCSOLID	MISCSOLID
	Top Depth (m):				0.05	0.05	0.05	0.05
	Bottom Depth (m):				0.05	0.05	0.05	0.05
	Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
Determinand	Accred.	SOP	Units	LOD				
Chromatogram (TPH)	N			N/A	To Follow	To Follow	To Follow	To Follow
Total TPH >C10-C40	N	2670	mg/kg	10	To Follow	To Follow	To Follow	To Follow
N-Nitrosodimethylamine	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	N	2790	mg/kg	0.50	< 0.50	0.71	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Miscellaneous Solid

Project: P25-1084

Client: Rodgers Leask Environmental	Chemtest Job No.:				25-39279	25-39279	25-39279	25-39279
Quotation No.:	Chemtest Sample ID.:				2062328	2062329	2062330	2062331
Order No.: RLL 25-12-10	Client Sample Ref.:				TARMAC C	ES	TARMAC A	TARMAC B
	Client Sample ID.:				ES	ES	ES	ES
	Client Reference:				TP301	TP317	TP330	TP331
	Sample Type:				MISCSOLID	MISCSOLID	MISCSOLID	MISCSOLID
	Top Depth (m):				0.05	0.05	0.05	0.05
	Bottom Depth (m):				0.05	0.05	0.05	0.05
	Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
Determinand	Accred.	SOP	Units	LOD				
4-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Coal Tar Presence/Absence	N			N/A	Absence	Absence	Absence	Absence
Moisture	N		%	0.10	< 0.10	< 0.10	< 0.10	< 0.10
SVOC TIC	N	2790	mg/kg	N/A	None Detected	None Detected	None Detected	None Detected

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:				25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:				2062326	2062327	2062332	2062333	2062334	2062335	2062336	2062337
Order No.: RLL 25-12-10		Client Sample Ref.:				ES	ES	D	D	D	D	D	D
		Client Sample ID.:				ES	ES	D	D	D	D	D	D
		Client Reference:				TP322	TP313	TP301	TP322	TP322	TP302	TP324	TP303
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.1	0.5	0.2	0.3	0.8	0.6	0.5	0.3
		Bottom Depth (m):				0.1	0.5	0.2	0.3	0.8	0.6	0.5	0.3
		Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:				DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		N	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	36	32						
Soil Colour		N	2030		N/A	Black	Brown						
Other Material		N	2030		N/A	Stones and Roots	Roots and Stones						
Soil Texture		N	2030		N/A	Clay	Clay						
pH at 20C		M	2010		4.0	7.8	7.8						
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.7	1.3						
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50	< 0.50						
Arsenic		M	2455	mg/kg	0.5	10	14						
Beryllium		U	2455	mg/kg	0.5	0.8	1.1						
Cadmium		M	2455	mg/kg	0.10	0.48	0.43						
Chromium		M	2455	mg/kg	0.5	12	26						
Copper		M	2455	mg/kg	0.50	24	14						
Mercury		M	2455	mg/kg	0.05	0.05	0.07						
Nickel		M	2455	mg/kg	0.50	17	20						
Lead		M	2455	mg/kg	0.50	110	29						
Selenium		M	2455	mg/kg	0.25	0.62	1.5						
Vanadium		U	2455	mg/kg	0.5	33	45						
Zinc		M	2455	mg/kg	0.50	99	60						
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50						
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05						
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05						
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05						
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10	< 0.10	< 0.10						
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05						
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25	< 0.25	< 0.25						
Aliphatic EPH >C10-C12	EH 2D AL #1	M	5002	mg/kg	2.00	< 2.0	< 2.0						
Aliphatic EPH >C12-C16	EH 2D AL #1	M	5002	mg/kg	2.00	< 2.0	< 2.0						
Aliphatic EPH >C16-C21	EH 2D AL #1	M	5002	mg/kg	2.00	4.4	< 2.0						
Aliphatic EPH >C21-C35	EH 2D AL #1	M	5002	mg/kg	3.00	6.7	5.0						
Aliphatic EPH >C35-C40	EH 2D AL #1	N	5002	mg/kg	10.00	< 10	< 10						
Aliphatic EPH >C40-C44	EH 2D AL #1	N	5002	mg/kg	1.00	< 1.0	1.1						
Total Aliphatic EPH >C10-C35	EH 2D AL #1	M	5002	mg/kg	7.00	13	< 7.0						
Total Aliphatic EPH >C10-C40	EH 2D AL #1	N	5002	mg/kg	10.00	13	< 10						
Total Aliphatic EPH >C10-C44	EH 2D AL #1	N	5002	mg/kg	10.00	13	< 10						
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05						

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:						25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:						2062326	2062327	2062332	2062333	2062334	2062335	2062336	2062337
Order No.: RLL 25-12-10		Client Sample Ref.:						ES	ES	D	D	D	D	D	D
		Client Sample ID.:						ES	ES	D	D	D	D	D	D
		Client Reference:						TP322	TP313	TP301	TP322	TP322	TP302	TP324	TP303
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.1	0.5	0.2	0.3	0.8	0.6	0.5	0.3
		Bottom Depth (m):						0.1	0.5	0.2	0.3	0.8	0.6	0.5	0.3
		Date Sampled:						27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:						DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD										
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05								
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05								
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25	< 0.25	< 0.25								
Aromatic EPH >C10-C12	EH 2D AR #1	U	5002	mg/kg	2.00	< 2.0	< 2.0								
Aromatic EPH >C12-C16	EH 2D AR #1	U	5002	mg/kg	2.00	3.4	< 2.0								
Aromatic EPH >C16-C21	EH 2D AR #1	U	5002	mg/kg	2.00	26	2.0								
Aromatic EPH >C21-C35	EH 2D AR #1	U	5002	mg/kg	2.00	91	4.2								
Aromatic EPH >C35-C40	EH 2D AR #1	N	5002	mg/kg	1.00	24	4.4								
Aromatic EPH >C40-C44	EH 2D AR #1	N	5002	mg/kg	1.00	< 1.0	< 1.0								
Total Aromatic EPH >C10-C35	EH 2D AR #1	U	5002	mg/kg	4.00	120	6.2								
Total Aromatic EPH >C10-C40	EH 2D AR #1	N	5002	mg/kg	10.00	140	11								
Total Aromatic EPH >C10-C44	EH 2D AR #1	N	5002	mg/kg	10.00	140	11								
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50	< 0.50	< 0.50								
Total EPH >C10-C35	EH 2D Total #1	U	5002	mg/kg	10.00	130	13								
Total EPH >C10-C40	EH 2D Total #1	N	5002	mg/kg	10.00	160	19								
Total EPH >C10-C44	EH 2D Total #1	N	5002	mg/kg	10.00	160	20								
Fraction of Organic Carbon		M	2625		0.0010	0.25	0.061								
Naphthalene		M	2800	mg/kg	0.10	0.50	0.12								
Acenaphthylene		N	2800	mg/kg	0.10	0.13	< 0.10								
Acenaphthene		M	2800	mg/kg	0.10	0.27	< 0.10								
Fluorene		M	2800	mg/kg	0.10	0.21	< 0.10								
Phenanthrene		M	2800	mg/kg	0.10	3.3	< 0.10								
Anthracene		M	2800	mg/kg	0.10	0.75	< 0.10								
Fluoranthene		M	2800	mg/kg	0.10	6.9	0.14								
Pyrene		M	2800	mg/kg	0.10	5.8	0.16								
Benzo[a]anthracene		M	2800	mg/kg	0.10	4.4	< 0.10								
Chrysene		M	2800	mg/kg	0.10	5.4	< 0.10								
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	8.6	< 0.10								
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.7	< 0.10								
Benzo[a]pyrene		M	2800	mg/kg	0.10	6.3	< 0.10								
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	4.7	< 0.10								
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.96	< 0.10								
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	4.5	< 0.10								
Total Of 16 PAH's		N	2800	mg/kg	2.0	55	< 2.0								
Total Phenols		M	2920	mg/kg	0.10	0.30	< 0.10								

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:				25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:				2062338	2062339	2062340	2062341	2062342	2062343	2062344	2062345
Order No.: RLL 25-12-10		Client Sample Ref.:				D	D	D	D	D	D	D	D
		Client Sample ID.:				D	D	D	D	D	D	D	D
		Client Reference:				TP304	TP316	TP305	TP329	TP325	TP317	TP317	TP306
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.45	0.6	0.5	0.4	0.3	0.3	0.5	0.5
		Bottom Depth (m):				0.45	0.6	0.5	0.4	0.3	0.3	0.5	0.5
		Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		N	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020								
Soil Colour		N	2030		N/A								
Other Material		N	2030		N/A								
Soil Texture		N	2030		N/A								
pH at 20C		M	2010		4.0								
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40								
Cyanide (Free)		M	2300	mg/kg	0.50								
Arsenic		M	2455	mg/kg	0.5								
Beryllium		U	2455	mg/kg	0.5								
Cadmium		M	2455	mg/kg	0.10								
Chromium		M	2455	mg/kg	0.5								
Copper		M	2455	mg/kg	0.50								
Mercury		M	2455	mg/kg	0.05								
Nickel		M	2455	mg/kg	0.50								
Lead		M	2455	mg/kg	0.50								
Selenium		M	2455	mg/kg	0.25								
Vanadium		U	2455	mg/kg	0.5								
Zinc		M	2455	mg/kg	0.50								
Chromium (Hexavalent)		N	2490	mg/kg	0.50								
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05								
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05								
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05								
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10								
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05								
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25								
Aliphatic EPH >C10-C12	EH 2D AL #1	M	5002	mg/kg	2.00								
Aliphatic EPH >C12-C16	EH 2D AL #1	M	5002	mg/kg	2.00								
Aliphatic EPH >C16-C21	EH 2D AL #1	M	5002	mg/kg	2.00								
Aliphatic EPH >C21-C35	EH 2D AL #1	M	5002	mg/kg	3.00								
Aliphatic EPH >C35-C40	EH 2D AL #1	N	5002	mg/kg	10.00								
Aliphatic EPH >C40-C44	EH 2D AL #1	N	5002	mg/kg	1.00								
Total Aliphatic EPH >C10-C35	EH 2D AL #1	M	5002	mg/kg	7.00								
Total Aliphatic EPH >C10-C40	EH 2D AL #1	N	5002	mg/kg	10.00								
Total Aliphatic EPH >C10-C44	EH 2D AL #1	N	5002	mg/kg	10.00								
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05								

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:	2062338	2062339	2062340	2062341	2062342	2062343	2062344	2062345
Order No.: RLL 25-12-10		Client Sample Ref.:	D	D	D	D	D	D	D	D
		Client Sample ID.:	D	D	D	D	D	D	D	D
		Client Reference:	TP304	TP316	TP305	TP329	TP325	TP317	TP317	TP306
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.45	0.6	0.5	0.4	0.3	0.3	0.5	0.5
		Bottom Depth (m):	0.45	0.6	0.5	0.4	0.3	0.3	0.5	0.5
		Date Sampled:	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05					
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05					
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25					
Aromatic EPH >C10-C12	EH 2D AR #1	U	5002	mg/kg	2.00					
Aromatic EPH >C12-C16	EH 2D AR #1	U	5002	mg/kg	2.00					
Aromatic EPH >C16-C21	EH 2D AR #1	U	5002	mg/kg	2.00					
Aromatic EPH >C21-C35	EH 2D AR #1	U	5002	mg/kg	2.00					
Aromatic EPH >C35-C40	EH 2D AR #1	N	5002	mg/kg	1.00					
Aromatic EPH >C40-C44	EH 2D AR #1	N	5002	mg/kg	1.00					
Total Aromatic EPH >C10-C35	EH 2D AR #1	U	5002	mg/kg	4.00					
Total Aromatic EPH >C10-C40	EH 2D AR #1	N	5002	mg/kg	10.00					
Total Aromatic EPH >C10-C44	EH 2D AR #1	N	5002	mg/kg	10.00					
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50					
Total EPH >C10-C35	EH 2D Total #1	U	5002	mg/kg	10.00					
Total EPH >C10-C40	EH 2D Total #1	N	5002	mg/kg	10.00					
Total EPH >C10-C44	EH 2D Total #1	N	5002	mg/kg	10.00					
Fraction of Organic Carbon		M	2625		0.0010					
Naphthalene		M	2800	mg/kg	0.10					
Acenaphthylene		N	2800	mg/kg	0.10					
Acenaphthene		M	2800	mg/kg	0.10					
Fluorene		M	2800	mg/kg	0.10					
Phenanthrene		M	2800	mg/kg	0.10					
Anthracene		M	2800	mg/kg	0.10					
Fluoranthene		M	2800	mg/kg	0.10					
Pyrene		M	2800	mg/kg	0.10					
Benzo[a]anthracene		M	2800	mg/kg	0.10					
Chrysene		M	2800	mg/kg	0.10					
Benzo[b]fluoranthene		M	2800	mg/kg	0.10					
Benzo[k]fluoranthene		M	2800	mg/kg	0.10					
Benzo[a]pyrene		M	2800	mg/kg	0.10					
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10					
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10					
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10					
Total Of 16 PAH's		N	2800	mg/kg	2.0					
Total Phenols		M	2920	mg/kg	0.10					

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:				25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:				2062346	2062347	2062348	2062349	2062350	2062351	2062353	2062354
Order No.: RLL 25-12-10		Client Sample Ref.:				D	D	D	D	D	D	D	D
		Client Sample ID.:				D	D	D	D	D	D	D	D
		Client Reference:				TP307	TP307	TP308	TP321	TP312	TP311	TP327	TP327
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.1	0.4	0.4	0.3	0.5	0.45	0.35	0.5
		Bottom Depth (m):				0.1	0.4	0.4	0.3	0.5	0.45	0.35	0.5
		Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		N	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020								
Soil Colour		N	2030		N/A								
Other Material		N	2030		N/A								
Soil Texture		N	2030		N/A								
pH at 20C		M	2010		4.0								
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40								
Cyanide (Free)		M	2300	mg/kg	0.50								
Arsenic		M	2455	mg/kg	0.5								
Beryllium		U	2455	mg/kg	0.5								
Cadmium		M	2455	mg/kg	0.10								
Chromium		M	2455	mg/kg	0.5								
Copper		M	2455	mg/kg	0.50								
Mercury		M	2455	mg/kg	0.05								
Nickel		M	2455	mg/kg	0.50								
Lead		M	2455	mg/kg	0.50								
Selenium		M	2455	mg/kg	0.25								
Vanadium		U	2455	mg/kg	0.5								
Zinc		M	2455	mg/kg	0.50								
Chromium (Hexavalent)		N	2490	mg/kg	0.50								
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05								
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05								
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05								
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10								
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05								
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25								
Aliphatic EPH >C10-C12	EH 2D AL #1	M	5002	mg/kg	2.00								
Aliphatic EPH >C12-C16	EH 2D AL #1	M	5002	mg/kg	2.00								
Aliphatic EPH >C16-C21	EH 2D AL #1	M	5002	mg/kg	2.00								
Aliphatic EPH >C21-C35	EH 2D AL #1	M	5002	mg/kg	3.00								
Aliphatic EPH >C35-C40	EH 2D AL #1	N	5002	mg/kg	10.00								
Aliphatic EPH >C40-C44	EH 2D AL #1	N	5002	mg/kg	1.00								
Total Aliphatic EPH >C10-C35	EH 2D AL #1	M	5002	mg/kg	7.00								
Total Aliphatic EPH >C10-C40	EH 2D AL #1	N	5002	mg/kg	10.00								
Total Aliphatic EPH >C10-C44	EH 2D AL #1	N	5002	mg/kg	10.00								
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05								

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:				25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:				2062346	2062347	2062348	2062349	2062350	2062351	2062353	2062354
Order No.: RLL 25-12-10		Client Sample Ref.:				D	D	D	D	D	D	D	D
		Client Sample ID.:				D	D	D	D	D	D	D	D
		Client Reference:				TP307	TP307	TP308	TP321	TP312	TP311	TP327	TP327
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.1	0.4	0.4	0.3	0.5	0.45	0.35	0.5
		Bottom Depth (m):				0.1	0.4	0.4	0.3	0.5	0.45	0.35	0.5
		Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05								
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05								
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25								
Aromatic EPH >C10-C12	EH 2D AR #1	U	5002	mg/kg	2.00								
Aromatic EPH >C12-C16	EH 2D AR #1	U	5002	mg/kg	2.00								
Aromatic EPH >C16-C21	EH 2D AR #1	U	5002	mg/kg	2.00								
Aromatic EPH >C21-C35	EH 2D AR #1	U	5002	mg/kg	2.00								
Aromatic EPH >C35-C40	EH 2D AR #1	N	5002	mg/kg	1.00								
Aromatic EPH >C40-C44	EH 2D AR #1	N	5002	mg/kg	1.00								
Total Aromatic EPH >C10-C35	EH 2D AR #1	U	5002	mg/kg	4.00								
Total Aromatic EPH >C10-C40	EH 2D AR #1	N	5002	mg/kg	10.00								
Total Aromatic EPH >C10-C44	EH 2D AR #1	N	5002	mg/kg	10.00								
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50								
Total EPH >C10-C35	EH 2D Total #1	U	5002	mg/kg	10.00								
Total EPH >C10-C40	EH 2D Total #1	N	5002	mg/kg	10.00								
Total EPH >C10-C44	EH 2D Total #1	N	5002	mg/kg	10.00								
Fraction of Organic Carbon		M	2625		0.0010								
Naphthalene		M	2800	mg/kg	0.10								
Acenaphthylene		N	2800	mg/kg	0.10								
Acenaphthene		M	2800	mg/kg	0.10								
Fluorene		M	2800	mg/kg	0.10								
Phenanthrene		M	2800	mg/kg	0.10								
Anthracene		M	2800	mg/kg	0.10								
Fluoranthene		M	2800	mg/kg	0.10								
Pyrene		M	2800	mg/kg	0.10								
Benzo[a]anthracene		M	2800	mg/kg	0.10								
Chrysene		M	2800	mg/kg	0.10								
Benzo[b]fluoranthene		M	2800	mg/kg	0.10								
Benzo[k]fluoranthene		M	2800	mg/kg	0.10								
Benzo[a]pyrene		M	2800	mg/kg	0.10								
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10								
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10								
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10								
Total Of 16 PAH's		N	2800	mg/kg	2.0								
Total Phenols		M	2920	mg/kg	0.10								

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:				25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:				2062356	2062357	2062358
Order No.: RLL 25-12-10		Client Sample Ref.:				D	D	D
		Client Sample ID.:				D	D	D
		Client Reference:				TP310	TP328	TP313
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.6	0.3	0.2
		Bottom Depth (m):				0.6	0.3	0.2
		Date Sampled:				27-Nov-2025	27-Nov-2025	27-Nov-2025
		Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
ACM Type		N	2192		N/A	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020			
Soil Colour		N	2030		N/A			
Other Material		N	2030		N/A			
Soil Texture		N	2030		N/A			
pH at 20C		M	2010		4.0			
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40			
Cyanide (Free)		M	2300	mg/kg	0.50			
Arsenic		M	2455	mg/kg	0.5			
Beryllium		U	2455	mg/kg	0.5			
Cadmium		M	2455	mg/kg	0.10			
Chromium		M	2455	mg/kg	0.5			
Copper		M	2455	mg/kg	0.50			
Mercury		M	2455	mg/kg	0.05			
Nickel		M	2455	mg/kg	0.50			
Lead		M	2455	mg/kg	0.50			
Selenium		M	2455	mg/kg	0.25			
Vanadium		U	2455	mg/kg	0.5			
Zinc		M	2455	mg/kg	0.50			
Chromium (Hexavalent)		N	2490	mg/kg	0.50			
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05			
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05			
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05			
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10			
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05			
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25			
Aliphatic EPH >C10-C12	EH 2D AL #1	M	5002	mg/kg	2.00			
Aliphatic EPH >C12-C16	EH 2D AL #1	M	5002	mg/kg	2.00			
Aliphatic EPH >C16-C21	EH 2D AL #1	M	5002	mg/kg	2.00			
Aliphatic EPH >C21-C35	EH 2D AL #1	M	5002	mg/kg	3.00			
Aliphatic EPH >C35-C40	EH 2D AL #1	N	5002	mg/kg	10.00			
Aliphatic EPH >C40-C44	EH 2D AL #1	N	5002	mg/kg	1.00			
Total Aliphatic EPH >C10-C35	EH 2D AL #1	M	5002	mg/kg	7.00			
Total Aliphatic EPH >C10-C40	EH 2D AL #1	N	5002	mg/kg	10.00			
Total Aliphatic EPH >C10-C44	EH 2D AL #1	N	5002	mg/kg	10.00			
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05			

Results - Soil

Project: P25-1084

Client: Rodgers Leask Environmental		Chemtest Job No.:	25-39279	25-39279	25-39279
Quotation No.:		Chemtest Sample ID.:	2062356	2062357	2062358
Order No.: RLL 25-12-10		<i>Client Sample Ref.:</i>	D	D	D
		<i>Client Sample ID.:</i>	D	D	D
		<i>Client Reference:</i>	TP310	TP328	TP313
		<i>Sample Type:</i>	SOIL	SOIL	SOIL
		<i>Top Depth (m):</i>	0.6	0.3	0.2
		<i>Bottom Depth (m):</i>	0.6	0.3	0.2
		<i>Date Sampled:</i>	27-Nov-2025	27-Nov-2025	27-Nov-2025
		<i>Asbestos Lab:</i>	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25
Aromatic EPH >C10-C12	EH 2D AR #1	U	5002	mg/kg	2.00
Aromatic EPH >C12-C16	EH 2D AR #1	U	5002	mg/kg	2.00
Aromatic EPH >C16-C21	EH 2D AR #1	U	5002	mg/kg	2.00
Aromatic EPH >C21-C35	EH 2D AR #1	U	5002	mg/kg	2.00
Aromatic EPH >C35-C40	EH 2D AR #1	N	5002	mg/kg	1.00
Aromatic EPH >C40-C44	EH 2D AR #1	N	5002	mg/kg	1.00
Total Aromatic EPH >C10-C35	EH 2D AR #1	U	5002	mg/kg	4.00
Total Aromatic EPH >C10-C40	EH 2D AR #1	N	5002	mg/kg	10.00
Total Aromatic EPH >C10-C44	EH 2D AR #1	N	5002	mg/kg	10.00
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50
Total EPH >C10-C35	EH 2D Total #1	U	5002	mg/kg	10.00
Total EPH >C10-C40	EH 2D Total #1	N	5002	mg/kg	10.00
Total EPH >C10-C44	EH 2D Total #1	N	5002	mg/kg	10.00
Fraction of Organic Carbon		M	2625		0.0010
Naphthalene		M	2800	mg/kg	0.10
Acenaphthylene		N	2800	mg/kg	0.10
Acenaphthene		M	2800	mg/kg	0.10
Fluorene		M	2800	mg/kg	0.10
Phenanthrene		M	2800	mg/kg	0.10
Anthracene		M	2800	mg/kg	0.10
Fluoranthene		M	2800	mg/kg	0.10
Pyrene		M	2800	mg/kg	0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10
Chrysene		M	2800	mg/kg	0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0
Total Phenols		M	2920	mg/kg	0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2185	Identification of Asbestos in Bulk Samples by Polarised Light Microscopy	Asbestos	Polarised light microscopy	
2192	Asbestos Quantification in Soils Sediments Ballast & Aggregate Crushed Concrete & Demolition Rubble	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
5002	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Where analysis is performed on a dried and crushed sample, it has been prepared by crushing all of the sample. If material has been removed prior to crushing, or by request of the client, this will be stated on the report.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Report Information

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water (Non-Regulatory)
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
cs@etuki.eurofins.com



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