



GEO-ENVIRONMENTAL AUDIT

PHASE 4 Validation

**Proposed Residential Development
Former Car Park/Land at
Commercial Street
Slaithwaite
HD7 5JX**

Author: Daniel Slattery
Client: Garside Developments
Reference: rep-tjba-garside-commercial st-Phs4ENV
validation-010324.docx

Revision	Date	Reason
0	March 2024	Original to obtain final discharge of environmental planning conditions.

T J Booth Associates.
20A Eastgate St,
Rochdale,
Lancs,
OL16 1DH.
Tel: 01706 868288.
Email: office@tjba.co.uk

GEO-ENVIRONMENTAL AUDIT

PHASE 4 Validation

Proposed Residential Development Former Car Park/Land at Commercial Street Slaithwaite HD7 5JX

CONTENTS:

1.	Phase 4 – VALIDATION.	3
1.1.	Introduction.	3
1.2.	Proposed Development.	3
1.3.	Phase 1, 2, & 3 Geoenvironmental Audit.	4
1.4.	Remediation Statement Summary.	4
1.5.	Verification.	4
1.6.	Validation Investigation.	4
1.7.	Final Validation Risk Assessment.	5
2.	Final Conclusion & Recommendations.	5
3.	Appendix A: Figures.	7
3.1.	Location Plan.	7
3.2.	Site Investigation Plan.	8
3.3.	TJBA Soil Analysis.	9
3.4.	Envirolab Ltd Certificates.	10
4.	Appendix B: Photos.	16

GEO-ENVIRONMENTAL AUDIT

PHASE 4 Validation

Proposed Residential Development Former Car Park/Land at Commercial Street Slaithwaite HD7 5JX

1. PHASE 4 – VALIDATION.

1.1. Introduction.

T. J. Booth Associates were originally appointed by Garside Developments to undertake a geo-environmental risk assessment to support a planning/building regulations application for residential development.

Report reference: rep-tjba-garside-commercial street, slaithwaite-phs 1, 2, & 3 ENV-rev1; was submitted and approved by the Kirklees Environmental Officer, and subsequently written into the approval notice conditions.

The approval notice was given in September 2022, reference: 2021/62/94411/W.

Planning conditions 8 related to the TJBA phase 1,2 & 3 report, and condition 9 related to final validation, as referenced below:

8. Remediation of the site shall be carried out and completed in accordance with the revised report by TJ Booth Associates, dated June 2022 (ref . Rep-tjba-garside-commercial street, Slaithwaite-phs1 2+3 ENV-160921.docx. In the event that remediation is unable to proceed in accordance with the approved Remediation Strategy or contamination not previously considered in the revised report by TJ Booth Associates dated June 2022 is identified or encountered on site, all groundworks in the affected area (except for site investigation works) shall cease immediately and the Local Planning Authority shall be notified in writing within 2 working days. Works shall not recommence until proposed revisions to the Remediation Strategy have been submitted to and approved in writing by the Local Planning Authority. Remediation of the site shall thereafter be carried out in accordance with the Remediation Strategy approved by this condition.

Reason: To ensure the safe occupation of the site in accordance with Policy LP53 of the Kirklees Local Plan and paragraph nos. 178 and 179 of the National Planning Policy Framework.

9. Following completion of any measures identified in the approved Remediation Strategy or any approved revised Remediation Strategy a Validation Report by a suitably competent person shall be submitted to the Local Planning Authority. No part of the site shall be brought into use until such time as the remediation measures have been completed for the site in accordance with the approved Remediation Strategy or the approved revised Remediation Strategy and a Validation Report in respect of those remediation measures has been submitted to, and approved in writing by, the Local Planning Authority.

Reason: To ensure the safe occupation of the site in accordance with Policy LP53 of the Kirklees Local Plan and paragraph nos. 178 and 179 of the National Planning Policy Framework.

The Site formerly comprised a car park used for the opposite doctor's surgery which has since relocated to new premises and the land sold for redevelopment.

This report provides a desk-based study & intrusive ground investigation based on current UK guidance for environmental investigation within the construction industry. Principal to the assessment is the potential for contamination pollutant linkages via the CLR-11 source-pathway-receptor methodology. Assessment of potential pollution linkages is primarily undertaken in strict accordance with BS5930:2015 BS 10175:2011+A2:2017 CIRIA C665 and BS 8485:2015+A1:2019 et al.

1.2. Proposed Development.

The proposal was for the redevelopment of the former car park into a residential development comprising a single detached two storey residential dwelling with associated parking to the front & north side of the dwelling, and rear garden to the east.

The development was finished in accordance with the proposals, and a soft landscaped (lawn) area to the rear of the property had a footprint of approximately 30sqm.

1.3. Phase 1, 2, & 3 Geoenvironmental Audit.

1.4. Remediation Statement Summary.

The only pollutant linkage noted was in regard to existing soil, and the potential for negative effects on end use receptors.

Remedial options were considered, and a remediation proposal comprising suitable cover soil to mitigate pathways to underlying minor contamination was approved as follows:

"Remedial Option 2 was chosen for the Site. Pollution linkages can be broken while achieving a cheaper, simpler & more sustainable solution which has less impact both on Site and to the surrounding area.

While existing soil may remain on Site beneath permanent hardstandings such as driveways and footpaths etc; to mitigate the risk to receptors, it is advised that a cover layer of clean inert soil is imported for garden and soft landscaping areas ONLY.

Existing made ground was generally recorded at between 900-1500mm deep & should be excavated and removed to 600mm from finish level, and replaced with imported soil to suit finishes. The 600mm cover system is adopted for the following reasons:

- *Root systems for shrubs are typically up to 600 mm.*
- *Excavations are unlikely to be deeper than 600 mm in typical gardening activities.*
- *Bioturbation is typically limited to the top 600 mm of the soil profile.*
- *Excavations by children or pets are unlikely to exceed 600 mm.*

Imported soil should be clean/inert/free from deleterious materials, should be suitable for use in a residential end use setting, and should be able to pass the contamination requirements in the validation section for use in a residential end use setting."

1.5. Verification.

Verification requirements were as follows:

"Verification of the imported soil may be required for Planning or Building Control/Building Regulations submission. Should this be required, it will need to be undertaken by suitably qualified consultants and comprise the following:

- *Source Material.*
- *Characterisation of Material.*
- *Soil sampling should be undertaken as per YALPAG Guidelines as per the following ratios:*

Virgin quarried materials, 1-2 samples to confirm inert nature.

Crushed hardcore, stone, brick, min 1 sample per 500cum.

Greenfield/manufactured, generally 1 sample per 250cum (min 3 samples).

Brownfield, generally 1 sample per 50cum (min 6 samples).

Samples should be tested for the following contamination suites: metals, inorganics, PAH USEPA16 speciated, and asbestos screening. Results will be analysed against Defra Category 4 Screening Levels (C4SLs) where available, and then to the LQM/CIEH (S4ULs), for use in a residential end use setting.

- *Suitability of Material.*
- *Stockpiling or Quarantining of Material.*
- *Verification Depth.*
- *Reporting (including photographic evidence)."*

1.6. Validation Investigation.

The Site was attended on 14.02.2024. The Site, building and all external works were completed.

The rear garden area as noted above was approximately 30sqm and comprised a grass/turf finish.

The remainder of the property comprised macadam driveway, and York stone pavements to the path surrounding the building.

The soil import was excess greenfield/manufactured soil left over from a previous project.

Site investigations comprised 3No. hand excavated trial pits, (TPs1-3), and 3No. soil samples (VS1-VS3) taken from their respective trial pits, refer to SI plan in the Appendix.

Imported soil was noted to 600mm depth and comprised uniform fill across each of the holes as follows:

TPs1-3/VS1-3 0-600mm Br sandy gravelly CLAY/SILT TOPSOIL. Gravel is sandstone, rare slate & brick.

Soil samples were sealed in 1kg white plastic snap top containers & amber jars, and sent to Eurofins Chemtest Ltd to be tested for metals, speciated PAH, inorganics & sulphates, SOM, and asbestos screening testing suites.

There was no visual or olfactory evidence of hydrocarbon contamination noted on the ground surface, within the samples, or elsewhere on the Site.

1.7. Final Validation Risk Assessment.

1.7.1. Human Health Risk.

1.7.1.1. *Shallow soil contamination.*

On return the samples were assessed by TJ Booth Associates to common threshold comparison data, specifically the Defra Category 4 Screening Levels (C4SLs), then to LQM/CIEH (S4ULs).

Testing of made ground revealed contaminant levels above residential threshold values with elevated levels of the following contaminants of concern, (refer to testing certificates, and full analysis spreadsheets in the Appendix):

Trial Hole/Soil Sample	Imported Soil	Mitigation/Action
TP1/VS1	No contaminants noted above residential threshold levels	PASS
TP2/VS2	No contaminants noted above residential threshold levels	PASS
TP3/VS3	No contaminants noted above residential threshold levels	PASS

2. FINAL CONCLUSION & RECOMMENDATIONS.

Due to the above results, imported soil is considered suitable for the proposed end use, and the potential pollutant linkage noted in the rep-tjba-garside-commercial street, slaithwaite-phs 1, 2, & 3 ENV-rev1, is considered to be mitigated.

No further investigation or assessment is required.

This validation report should be submitted to the Local Planning Authority Contaminated Land Department to obtain final discharge of conditions 8 & 9 on planning approval notice 2021/62/94411/W.

We trust that the above clear, but should you require further advice please contact the undersigned.

Signed.....



D.S. Slattery BSc (Hons).

T J Booth Associates.

Authorised...

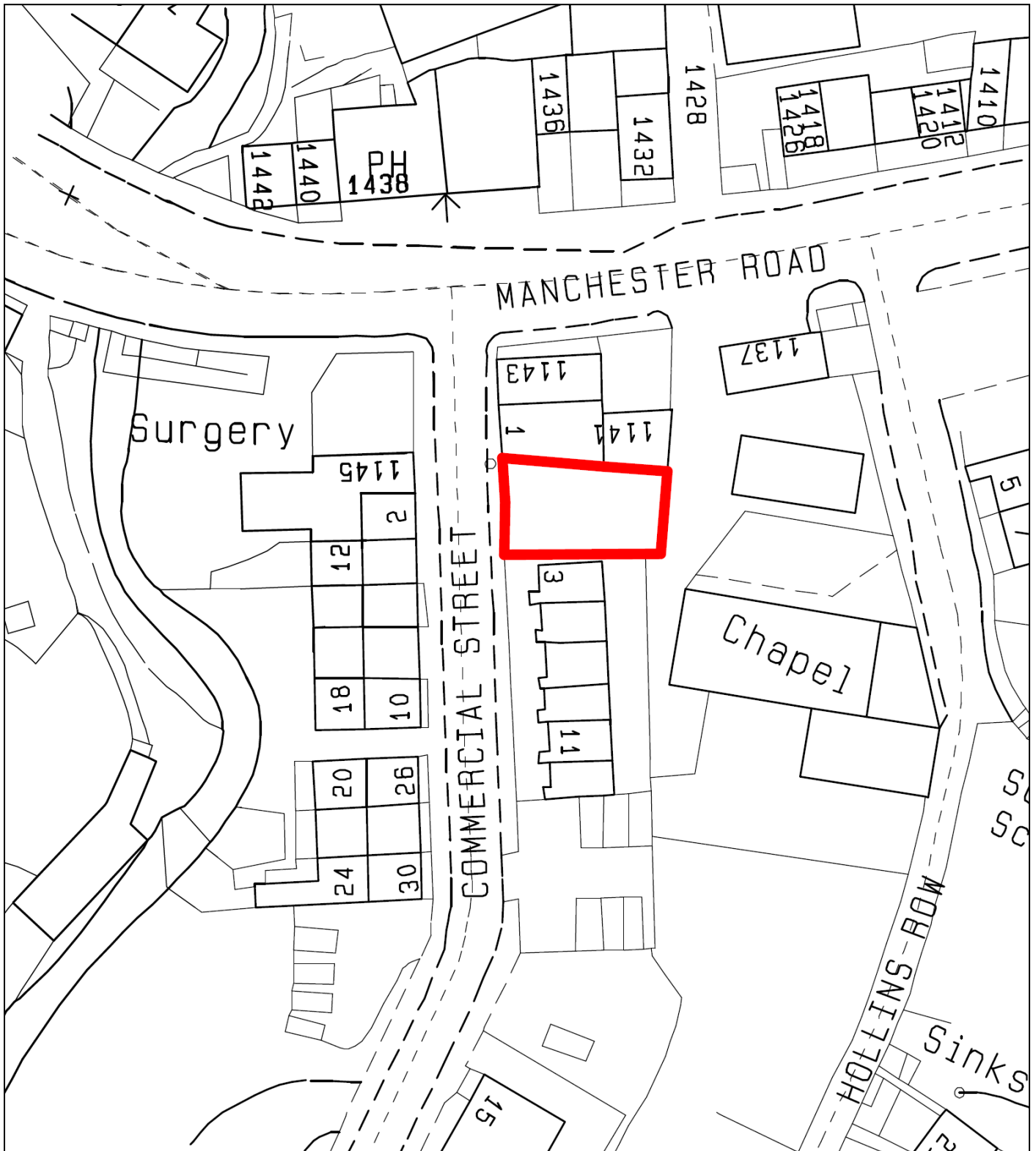


T J Booth BSc (Hons), C. Eng. C. Env. MICE.

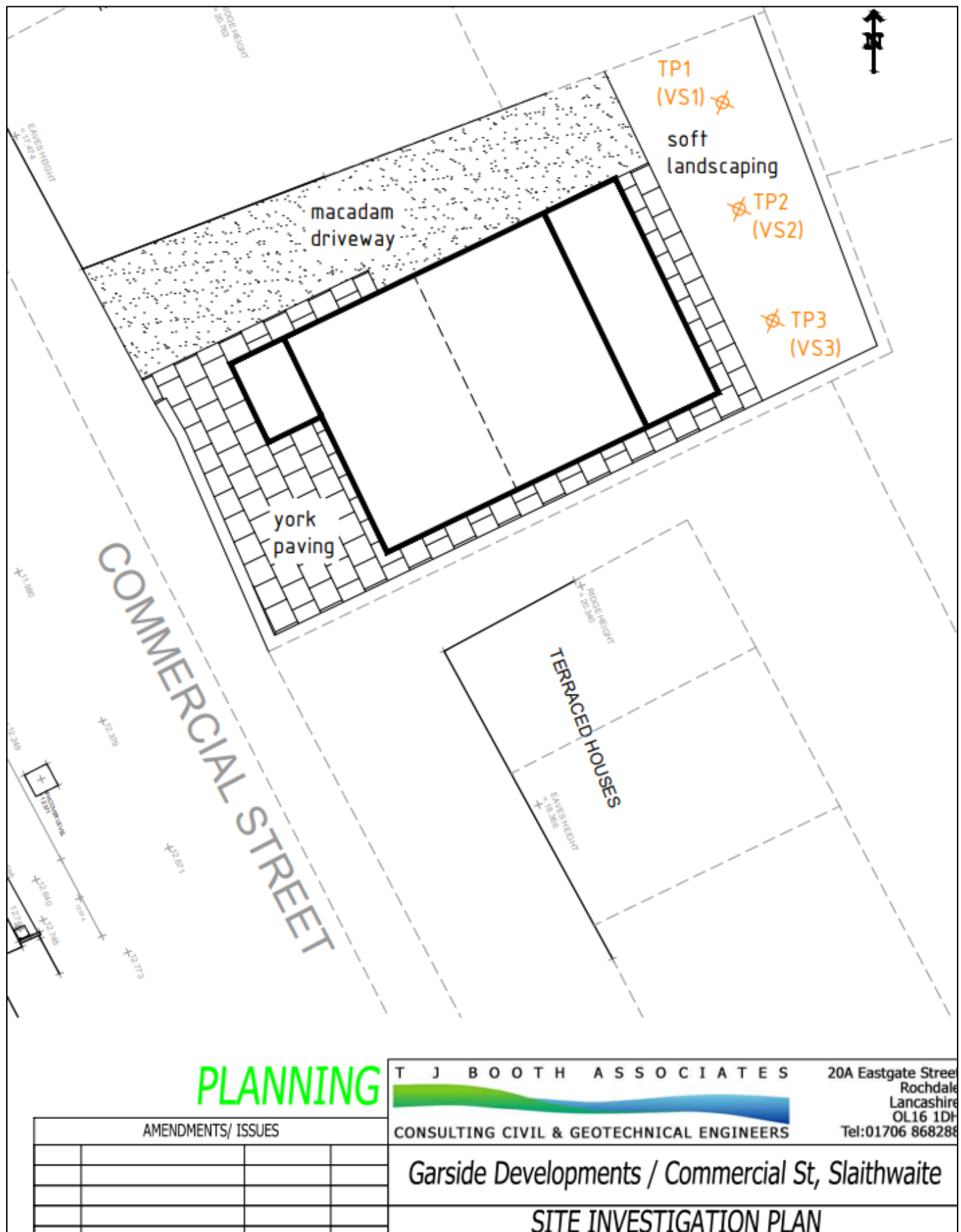
T J Booth Associates.

3. APPENDIX A: FIGURES

3.1. Location Plan



3.2. Site Investigation Plan



3.3. TJBA Soil Analysis

CLIENT/SITE:		<i>Garside - Commercial Street, Slaithwaite.</i>					
SAMPLE TYPE:		<i>SOILS / Validation sampling.</i>					
SAMPLING DATE:		<i>14.02.2024.</i>					
Contaminant		No	Max	Mean	t 95	RESIDENTIAL (with or without plant uptake)	
						Pass/Fail	Comment
METALS	Arsenic as As, dry weight	3	10	7	10	37	PASS
	Boron as B, hot water sol dw	3	1	1	1	290	PASS
	Cadmium as Cd, dry weight	3	0.7	0.633333	0.7	22	PASS
	chromium as Cr(III) dry weight	3	31	24.67	30.30	910	PASS
	Chromium as Cr(VI), dry weight	3	1	1	1	21	PASS
	Copper, as Dry Weight	3	31	24.66667	30.9	2400	PASS
	Lead, as Dry Weight	3	63	47.33333	62.9	200	PASS
	Mercury as Hg, dry weight	3	0.17	0.17	0.17	1.2	PASS
	Nickel as Ni, dry weight	3	16	14.33333	15.8	130	PASS
	Selenium as Se, dry weight	3	1	1	1	250	PASS
	Zinc as Zn, dry weight	3	86	69	86	3700	PASS
INORGANIC	Cyanide (Total)	3	1	1	1	34	PASS
	Sulphate (Total) as SO4	3	0.1	0.067667	0.0982	0.24	PASS
	pH	3	6.51	6.33	6.507	6 to 8	NORMAL
	Sulphur (Elemental)	3	7	5.666667	6.8	100	PASS
	Asbestos Identification	3	0	0	0	0	PASS
ORGANIC	SOM	3	6	4.833333	6		
	PAH acenaphthene	3	0.01	0.01	0.01	1100	PASS
	PAH acenaphthylene	3	0.01	0.01	0.01	920	PASS
	PAH anthracene	3	0.04	0.033333	0.04	11000	PASS
	PAH benzo[a]anthracene	3	0.28	0.223333	0.278	13	PASS
	PAH benzo[a]pyrene	3	0.33	0.256667	0.327	5	PASS
	PAH benzo[b]fluoranthene	3	0.4	0.306667	0.396	3.7	PASS
	PAH benzo[g,h,i]perylene	3	0.17	0.13	0.169	350	PASS
	PAH benzo[k]fluoranthene	3	0.15	0.12	0.149	100	PASS
	PAH chrysene	3	0.36	0.286667	0.358	27	PASS
	PAH dibenz[ah]anthracene	3	0.04	0.04	0.04	0.3	PASS
	PAH fluoranthene	3	0.54	0.43	0.536	890	PASS
	PAH fluorene	3	0.01	0.01	0.01	860	PASS
	PAH indeno[123-cd]pyrene	3	0.21	0.166667	0.209	41	PASS
	PAH naphthalene	3	0.03	0.03	0.03	13	PASS
	PAH phenanthrene	3	0.15	0.126667	0.15	440	PASS
	PAH pyrene	3	0.5	0.406667	0.498	2000	PASS
	SVOC phenol	3	0.2	0.2	0.2	380	PASS

3.4. Envirolab Ltd Certificates



Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/01589

Issue Number: 1

Date: 29 February, 2024

Client: T J Booth Associates
20a East Gate Street
Rochdale
Rochdale
Greater Manchester
UK
OL16 1DH

Project Manager: Daniel Slattery
Project Name: Garside Developments - Commercial Street, Slaithwaite
Project Ref: Not specified
Order No: N/A
Date Samples Received: 15/02/24
Date Instructions Received: 16/02/24
Date Analysis Completed: 29/02/24

Approved by:

Richard Wong
Client Manager





Envirolab Job Number: 24/01589

Client Project Name: Garside Developments - Commercial Street, Slaithwaite

Client Project Ref: Not specified

Lab Sample ID	24/01589/1	24/01589/2	24/01589/3					Units	Limit of Detection	Method ref
Client Sample No	VS1	VS2	VS3							
Client Sample ID	TP1	TP2	TP3							
Depth to Top	0.00	0.00	0.00							
Depth To Bottom	0.50	0.50	0.50							
Date Sampled	14-Feb-24	14-Feb-24	14-Feb-24							
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6AE	5AE	6AE							
% Stones >10mm _A	<0.1	<0.1	<0.1					% w/w	0.1	A-T-044
pH ₀ ^{MS}	6.48	6.51	6.00					pH	0.01	A-T-031s
Sulphate (acid soluble) ₀ ^{MS}	820	210	1000					mg/kg	200	A-T-028s
Cyanide (total) _A ^{MS}	<1	<1	<1					mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2					mg/kg	0.2	A-T-050s
Sulphide _A	<5	<5	<5					mg/kg	5	A-T-043-s
Sulphur (elemental) ₀ ^{MS}	<5	<5	7					mg/kg	5	A-T-029s
Organic Matter ₀ ^{MS}	11.9	2.1	7.2					% w/w	0.1	A-T-032s
Arsenic ₀ ^{MS}	10	<1	10					mg/kg	1	A-T-024s
Boron (water soluble) ₀ ^{MS}	<1.0	<1.0	<1.0					mg/kg	1	A-T-027s
Cadmium ₀ ^{MS}	0.7	<0.5	0.7					mg/kg	0.5	A-T-024s
Copper ₀ ^{MS}	30	13	31					mg/kg	1	A-T-024s
Chromium ₀ ^{MS}	24	19	31					mg/kg	1	A-T-024s
Chromium (hexavalent) ₀	<1	<1	<1					mg/kg	1	A-T-040s
Lead ₀ ^{MS}	63	17	62					mg/kg	1	A-T-024s
Mercury ₀	<0.17	<0.17	<0.17					mg/kg	0.17	A-T-024s
Nickel ₀ ^{MS}	14	13	16					mg/kg	1	A-T-024s
Selenium ₀ ^{MS}	<1	<1	1					mg/kg	1	A-T-024s
Zinc ₀ ^{MS}	86	35	86					mg/kg	5	A-T-024s



Envirolab Job Number: 24/01589

Client Project Name: Garside Developments - Commercial Street, Slaithwaite

Client Project Ref: Not specified

Lab Sample ID	24/01589/1	24/01589/2	24/01589/3					Units	Limit of Detection	Method ref
Client Sample No	VS1	VS2	VS3							
Client Sample ID	TP1	TP2	TP3							
Depth to Top	0.00	0.00	0.00							
Depth To Bottom	0.50	0.50	0.50							
Date Sampled	14-Feb-24	14-Feb-24	14-Feb-24							
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6AE	5AE	6AE							
Asbestos in Soil (inc. matrix)										
Asbestos in soil ₀ ^a	NAD	NAD	NAD							A-T-045
Asbestos Matrix (visual) ₀	-	-	-							A-T-045
Asbestos Matrix (microscope) ₀	-	-	-							A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ₀	N/A	N/A	N/A							A-T-045



Envirolab Job Number: 24/01589

Client Project Name: Garside Developments - Commercial Street, Slaithwaite

Client Project Ref: Not specified

Lab Sample ID	24/01589/1	24/01589/2	24/01589/3						
Client Sample No	VS1	VS2	VS3						
Client Sample ID	TP1	TP2	TP3						
Depth to Top	0.00	0.00	0.00						
Depth To Bottom	0.50	0.50	0.50						
Date Sampled	14-Feb-24	14-Feb-24	14-Feb-24						
Sample Type	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	5AE	6AE						
PAH-16MS									
Acenaphthene _A ^{MS}	<0.01	0.01	<0.01				mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{MS}	<0.01	<0.01	<0.01				mg/kg	0.01	A-T-019s
Anthracene _A ^{MS}	0.04	0.04	<0.02				mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{MS}	0.28	0.26	0.13				mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{MS}	0.33	0.30	0.14				mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{MS}	0.40	0.36	0.16				mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{MS}	0.17	0.16	0.06				mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{MS}	0.15	0.14	<0.07				mg/kg	0.07	A-T-019s
Chrysene _A ^{MS}	0.36	0.34	0.16				mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A	<0.04	<0.04	<0.04				mg/kg	0.04	A-T-019s
Fluoranthene _A ^{MS}	0.54	0.50	0.25				mg/kg	0.08	A-T-019s
Fluorene _A ^{MS}	<0.01	<0.01	<0.01				mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{MS}	0.21	0.20	0.09				mg/kg	0.03	A-T-019s
Naphthalene _A ^{MS}	<0.03	<0.03	<0.03				mg/kg	0.03	A-T-019s
Phenanthrene _A ^{MS}	0.15	0.15	0.08				mg/kg	0.03	A-T-019s
Pyrene _A ^{MS}	0.50	0.48	0.24				mg/kg	0.07	A-T-019s
Total PAH-16MS _A	3.13	2.94	1.31				mg/kg	0.01	A-T-019s



Report Notes

General

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

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and Interpretations expressed are outside our scope of accreditation.

The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.

A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "M"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "A"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt.
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.

Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.



Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: T J Booth Associates, 20a East Gate Street, Rochdale, Rochdale, Greater Manchester, UK, OL16 1DH

Project No: 24/01589
Date Received: 16/02/2024 (am)
Cool Box Temperatures (°C): 14.0

Project: Garside Developments - Commercial Street, Slaithwaite
Clients Project No:

Lab Sample ID	24/01589/1	24/01589/2	24/01589/3
Client Sample No	VS1	VS2	VS3
Client Sample ID/Depth	TP1 0.00-0.50m	TP2 0.00-0.50m	TP3 0.00-0.50m
Date Sampled	14/02/24	14/02/24	14/02/24
Deviation Code	F		

Key
F

Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	24/01589/1	24/01589/2	24/01589/3
Client Sample No	VS1	VS2	VS3
Client Sample ID/Depth	TP1 0.00-0.50m	TP2 0.00-0.50m	TP3 0.00-0.50m
Date Sampled	14/02/24	14/02/24	14/02/24
Sulphide	✓	✓	✓

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples $5 \pm 3^\circ\text{C}$), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Page 6 of 7



Envirolab Analysis Dates

Lab Sample ID	24/01589/1	24/01589/2	24/01589/3
Client Sample No	VS1	VS2	VS3
Client Sample ID/Depth	TP1 0.00-0.50m	TP2 0.00-0.50m	TP3 0.00-0.50m
Date Sampled	14/02/24	14/02/24	14/02/24
A-T-019s	22/02/2024	22/02/2024	22/02/2024
A-T-024s	29/02/2024	29/02/2024	29/02/2024
A-T-027s	29/02/2024	29/02/2024	29/02/2024
A-T-028s	29/02/2024	29/02/2024	29/02/2024
A-T-029s	28/02/2024	28/02/2024	28/02/2024
A-T-031s	29/02/2024	29/02/2024	29/02/2024
A-T-032s	28/02/2024	28/02/2024	28/02/2024
A-T-040s	29/02/2024	29/02/2024	29/02/2024
A-T-042sTCN	24/02/2024	24/02/2024	24/02/2024
A-T-043-s	27/02/2024	27/02/2024	27/02/2024
A-T-044	22/02/2024	22/02/2024	22/02/2024
A-T-045	19/02/2024	19/02/2024	19/02/2024
A-T-050s	26/02/2024	26/02/2024	26/02/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Page 7 of 7

4. APPENDIX B: PHOTOS



Rear garden including Sampling locations.



Driveway and flagstone surround.



TP1/VS1.



TP2/VS2.



TP3/VS3.



Depth check to 2ft (600mm).