

Our Ref: BEK-20750-2-211202-WCL

2 December 2021

FAO Jake Rothwell
Wellbuilt Construction Limited
68 Preston Road
Coppull
Chorley
PR7 5DW

Dear Jake

Victoria Street, Cloughfield, Rawtenstall– Site Investigation

BEK Enviro (BEK) have been commissioned by Wellbuilt Construction Limited to undertake an intrusive site investigation at the above site to determine depth to bedrock at selected locations and to recover samples of made ground/superficial strata to inform waste classification.

The site investigation was carried out from 20th and 22nd October 2021 and was supervised by an engineer from BEK. The investigation consisted on the excavation of a series of hand excavated trial pits and advancing dynamic probes using a WS Drilling Rig. There were also 3 existing machine excavated trial pits present for inspection. Representative samples were recovered from the trial pits for chemical testing.

The approximate Trial Pit and Borehole locations are illustrated in Figure 1 below:

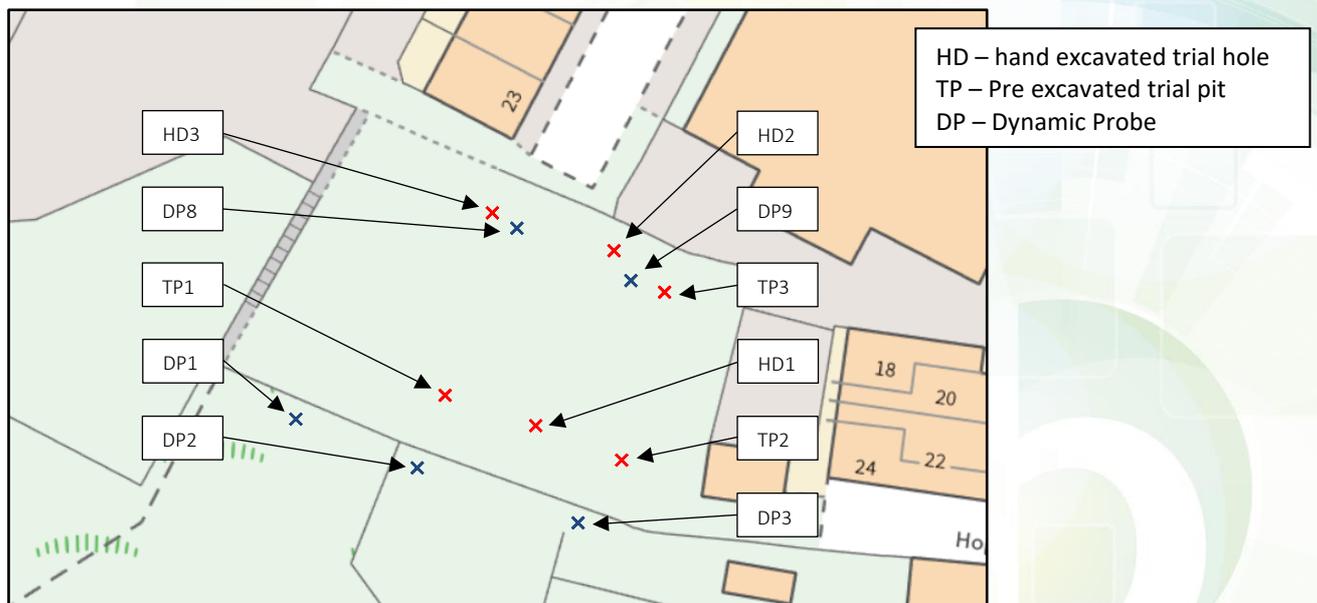


Figure 1: Approximate Exploratory Locations

Ground Conditions – Trial Pits

The hand excavated Trial Pits were excavated to a maximum depth of 1.1 m. The ground conditions encountered varied slightly across the site. Notable differences include the greater thickness of topsoil/madeground and increased deleterious material content in the northern portion of the site. Detailed Trial Pit logs are presented in Annex A. Photographs of the Trial Pits are presented in Annex D.

Significant strata encountered are described as follows:

- “Dark brown sandy silty gravelly CLAY with occasional cobbles and roots” – This strata was encountered from the ground surface in Trial Pits TP1, TP2, TP3, HD1 and HD2 down to depths ranging from 0.02 to 0.6 m. Varied content of deleterious material was encountered in this strata including slate, brick fragments, clay pottery, ceramics, stone flags and tiles.
- “Dark brown clayey silty SAND with frequent fine to coarse gravel and cobbles and roots and occasional boulders and rare brick, metal, plastic, rope and glass” was encountered from the surface to 0.4 m bgl in Trial Pit HD1 .
- “Light brown very clayey and gravelly SAND with frequent cobble and occasional boulders and roots” was encountered underlying the topsoil/madeground in Trial Pits TP1, TP2, and HD1 down to the base of the pits (0.4 m for HD1 and 1.0 m for TP1 and TP2).

Five samples (TP1 0.1 m, TP2 0.25 m, TP3 0.2 m, HD2 0.5 m, and HD3 0.3 m) were submitted for testing for total concentrations of a wide range of potential contaminants of concern in accordance with the recommendations in the PRA. The chemical test results are presented in Annex B.

Dynamic Probing

Five dynamic probing boreholes were drilled at locations shown in Figure 1 to a maximum depth of 13.3 m. Drilling could not be carried out in the centre of the site due to the soft and steep ground conditions preventing access for the drilling rig. The SPT results of the dynamic probing boreholes are shown in Annex C.

I trust the above is satisfactory. Should you require anything further please do not hesitate to contact the undersigned.

Yours sincerely,



MICHAEL BUCKLEY
BSc (Hons) MSc MEnvSci CEnv



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviron.co.uk | bekenviron.co.uk

ANNEX A

Trial Pit Logs



GEO-ENVIRONMENTAL CONSULTANTS

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

PROJECT NUMBER 20750 PROJ. NAME Victoria Street, Rawtenstall CLIENT Wellbuilt Construction Ltd	DATE 20th October 2021 EXCAVATION METHOD Trial Pit TRIAL PIT NO TP1 SHEET 1/6
---	--

COMPLETION

COMMENTS Dry Pit

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Additional Observations	Elevation (m)
0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1	0.1 D=0.1 m					Dark brown sandy silty gravelly CLAY with occasional cobbles and roots and rootlets Light brown very clayey and gravelly SAND with frequent cobbles and occasional boulders and roots		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1
						Termination Depth at: 1.0 m		



GEO-ENVIRONMENTAL CONSULTANTS

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

PROJECT NUMBER 20750 PROJ. NAME Victoria Street, Rawtenstall CLIENT Wellbuilt Construction Ltd	DATE 20th October 2021 EXCAVATION METHOD Trial Pit TRIAL PIT NO TP2 SHEET 2/6
---	--

COMPLETION

COMMENTS Dry Pit

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Additional Observations	Elevation (m)
0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1	0.25 D=0.25 m					Dark brown sandy silty gravelly CLAY with slate and frequent roots Light brown very clayey and gravelly SAND with frequent cobbles Termination Depth at: 1.0 m		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1



GEO-ENVIRONMENTAL CONSULTANTS

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

PROJECT NUMBER 20750 PROJ. NAME Victoria Street, Rawtenstall CLIENT Wellbuilt Construction Ltd	DATE 20th October 2021 EXCAVATION METHOD Trial Pit TRIAL PIT NO HD1 SHEET 4/6
---	--

COMPLETION

COMMENTS Dry Pit

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Additional Observations	Elevation (m)
0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95	0.2 D=0.2 m					Dark brown very sandy silty CLAY with frequent fine to coarse gravel and cobbles and occasional roots Light brown very clayey and gravelly SAND with frequent cobbles		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95
						Termination Depth at: 0.4 m		



GEO-ENVIRONMENTAL CONSULTANTS

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

PROJECT NUMBER 20750 PROJ. NAME Victoria Street, Rawtenstall CLIENT Wellbuilt Construction Ltd	DATE 20th October 2021 EXCAVATION METHOD Trial Pit TRIAL PIT NO HD2 SHEET 5/6
---	--

COMPLETION

COMMENTS Dry Pit

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Additional Observations	Elevation (m)
0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95	0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95				Graphic Log	Dark brown sandy silty CLAY with frequent fine to coarse gravel and cobbles and occasional roots and rare stone flags and tiles		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95
	0.5	D=0.5 m						
						Termination Depth at: 0.6 m		



GEO-ENVIRONMENTAL CONSULTANTS

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

PROJECT NUMBER 20750 PROJ. NAME Victoria Street, Rawtenstall CLIENT Wellbuilt Construction Ltd	DATE 20th October 2021 EXCAVATION METHOD Trial Pit TRIAL PIT NO HD3 SHEET 6/6
---	--

COMPLETION

COMMENTS Dry Pit

Depth (m)	Depth (m)	Samples/ Test	Field Records	Water	Graphic Log	Material Description	Additional Observations	Elevation (m)
0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95	0.3 D=0.3 m				Graphic Log	Dark brown clayey silty SAND with frequent fine to coarse gravel and cobbles and roots and occasional boulders and rare brick and metal and plastic and rope and glass		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95
						Termination Depth at: 0.4 m		



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviron.co.uk | bekenviron.co.uk

ANNEX B

Chemical Test Results

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 21/11472
Issue Number: 1
Date: 28 October, 2021

Client: BEK Enviro Ltd
Suite One
No 3 Mitton Road Business Park
Mitton Road
Whalley
Lancashire
BB7 9YE

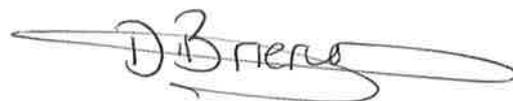
Project Manager: Jonathan Douglas/Mick Buckley
Project Name: Victoria Street
Project Ref: Not specified
Order No: 7277-20750-JD
Date Samples Received: 21/10/21
Date Instructions Received: 22/10/21
Date Analysis Completed: 28/10/21

Prepared by:



Sophie France
Client Service Manager

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Envirolab Job Number: 21/11472

Client Project Name: Victoria Street

Client Project Ref: Not specified

Lab Sample ID	21/11472/1	21/11472/2	21/11472/3	21/11472/4	21/11472/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP1	TP2	TP3	HD2	HD3					
Depth to Top	0.10	0.25	0.20	0.50	0.30					
Depth To Bottom										
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	6AE	6A	4A	4AE	6AE					
% Stones >10mm _A	9.0	0.3	1.0	4.9	5.5					
pH _D ^{M#}	4.88	6.98	6.91	6.25	7.25			pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01			g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	730	900	540	640	680			mg/kg	200	A-T-028s
Cyanide (total) _A ^{M#}	<1	<1	<1	<1	<1			mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2	A-T-050s
Organic matter _D ^{M#}	10.6	6.0	22.8	28.5	19.6			% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	21	16	33	60	8			mg/kg	1	A-T-024s
Boron (water soluble) _D	<1.0	<1.0	<1.0	<1.0	<1.0			mg/kg	1	A-T-027s
Cadmium _D ^{M#}	3.8	6.0	5.3	6.4	6.0			mg/kg	0.5	A-T-024s
Copper _D ^{M#}	66	59	77	190	125			mg/kg	1	A-T-024s
Chromium _D ^{M#}	26	25	20	25	24			mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1			mg/kg	1	A-T-040s
Lead _D ^{M#}	258	95	442	356	341			mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17			mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	25	44	44	46	98			mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1			mg/kg	1	A-T-024s
Zinc _D ^{M#}	154	1180	337	382	558			mg/kg	5	A-T-024s

Envirolab Job Number: 21/11472

Client Project Name: Victoria Street

Client Project Ref: Not specified

Lab Sample ID	21/11472/1	21/11472/2	21/11472/3	21/11472/4	21/11472/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP1	TP2	TP3	HD2	HD3					
Depth to Top	0.10	0.25	0.20	0.50	0.30					
Depth To Bottom										
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	6AE	6A	4A	4AE	6AE					
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-					A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A					A-T-045

Envirolab Job Number: 21/11472

Client Project Name: Victoria Street

Client Project Ref: Not specified

Lab Sample ID	21/11472/1	21/11472/2	21/11472/3	21/11472/4	21/11472/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP1	TP2	TP3	HD2	HD3					
Depth to Top	0.10	0.25	0.20	0.50	0.30					
Depth To Bottom										
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	6AE	6A	4A	4AE	6AE					
PAH-16MS										
Acenaphthene _A ^{M#}	0.06	0.04	0.08	3.32	0.06			mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.06	0.03	0.08	0.29	0.09			mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.20	0.11	0.50	4.61	0.23			mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	1.19	0.59	2.70	9.51	1.35			mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	1.14	0.59	2.52	6.77	1.40			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	1.41	0.73	2.84	7.59	1.63			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.55	0.32	1.10	2.55	0.80			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.49	0.31	1.20	3.10	0.56			mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	1.34	0.70	2.70	8.92	1.49			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.11	0.07	0.28	0.68	0.17			mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	3.17	1.30	5.65	24.2	2.97			mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.08	0.03	0.12	2.73	0.08			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.64	0.35	1.29	3.07	0.87			mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	0.04	0.65	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	1.28	0.57	2.31	23.9	1.24			mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	2.80	1.22	4.94	20.4	2.65			mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	14.5	6.96	28.4	122	15.6			mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/11472

Client Project Name: Victoria Street

Client Project Ref: Not specified

Lab Sample ID	21/11472/1	21/11472/2	21/11472/3	21/11472/4	21/11472/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP1	TP2	TP3	HD2	HD3					
Depth to Top	0.10	0.25	0.20	0.50	0.30					
Depth To Bottom										
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	6AE	6A	4A	4AE	6AE					
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	1	<1			mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	1	3	1			mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	15	7	10	21	40			mg/kg	1	A-T-055s
Total Aliphatics _A	15	7	11	25	41			mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C10-C12 _A	1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C12-C16 _A	6	1	3	14	3			mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	44	10	22	114	22			mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	143	45	106	341	96			mg/kg	1	A-T-055s
Total Aromatics _A	194	56	131	469	120			mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	209	63	142	494	161			mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s

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 with the same delivery, will be disposed of six weeks after 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 the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples 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.

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

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 analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

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

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

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.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	BEK Enviro Ltd, Suite One , No 3 Mitton Road Business Park , Mitton Road , Whalley , Lancashire , BB7 9YE	Project No:	21/11472
Project:	Victoria Street	Date Received:	22/10/2021 (am)
Clients Project No:		Cool Box Temperatures (°C):	9.1

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

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.

Envirolab Analysis Dates

Lab Sample ID	21/11472/1	21/11472/2	21/11472/3	21/11472/4	21/11472/5
Client Sample No					
Client Sample ID/Depth	TP1 0.10m	TP2 0.25m	TP3 0.20m	HD2 0.50m	HD3 0.30m
Date Sampled	20/10/21	20/10/21	20/10/21	20/10/21	20/10/21
A-T-019s	27/10/2021	27/10/2021	27/10/2021	27/10/2021	27/10/2021
A-T-022s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-024s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-026s	27/10/2021	27/10/2021	27/10/2021	27/10/2021	27/10/2021
A-T-027s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-028s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-031s	27/10/2021	27/10/2021	27/10/2021	27/10/2021	27/10/2021
A-T-032 OM	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-040s	27/10/2021	27/10/2021	27/10/2021	27/10/2021	27/10/2021
A-T-042sTCN	26/10/2021	26/10/2021	26/10/2021	26/10/2021	26/10/2021
A-T-044	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-045	25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
A-T-050s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021
A-T-055s	28/10/2021	28/10/2021	28/10/2021	28/10/2021	28/10/2021

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



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviron.co.uk | bekenviron.co.uk

ANNEX C

Dynamic Probing Logs

22 October 2021 - Victoria Street, Rossendale - Dynamic Probes

Standard Penetration Tests

DP1

Depth (m)	SPT (S) N=						
1 - 1.45	1	1	1	1	1	1	4
2 - 2.45	1	1	1	1	1	1	4
3 - 3.45	1	0	1	1	0	1	3
4 - 4.45	2	3	1	2	1	2	6
5 - 5.45	4	3	2	4	3	3	12
6 - 6.45	3	3	3	4	3	4	14
7 - 7.45	4	4	5	4	5	4	18
8 - 8.45	3	3	2	3	3	4	12
9 - 9.45	2	1	2	2	1	2	7
10 - 10.45	3	3	4	3	2	4	13
11 - 11.45	4	4	5	4	4	4	17
12 - 12.45	6	5	6	4	6	4	20
13 - 13.2	9	14	R	R	R	R	

R = Refusal

22 October 2021 - Victoria Street, Rossendale - Dynamic Probes

Standard Penetration Tests

DP2

Depth (m)	SPT (S) N=						
1 - 1.45	1	1	0	1	1	0	2
2 - 2.45	1	2	2	1	1	1	5
3 - 3.45	2	0	1	1	0	1	3
4 - 4.45	2	2	1	3	1	2	7
5 - 5.45	4	4	3	4	3	3	13
6 - 6.45	4	4	4	5	4	4	17
7 - 7.45	5	6	4	4	5	4	17
8 - 8.45	4	3	4	4	3	3	14
9 - 9.45	2	1	1	1	1	2	5
10 - 10.45	3	2	2	3	3	3	11
11 - 11.45	3	3	2	4	3	3	12
12 - 12.45	4	4	5	6	4	4	19
13 - 13.3	8	12	16	14	R	R	

R = Refusal

22 October 2021 - Victoria Street, Rossendale - Dynamic Probes

Standard Penetration Tests

DP3

Depth (m)	SPT (S) N=						
1 - 1.45	0	0	0	0	0	1	1
2 - 2.45	1	0	1	1	1	1	4
3 - 3.45	4	3	4	3	3	3	13
4 - 4.45	4	4	4	3	3	3	13
5 - 5.45	3	3	4	2	3	2	11
6 - 6.45	3	2	2	2	3	2	9
7 - 7.45	2	2	2	2	1	3	8
8 - 8.45	2	1	1	1	2	2	6
9 - 9.45	2	2	2	4	3	4	13
10 - 10.45	3	3	4	4	4	3	15
11 - 11.45	4	4	5	4	3	3	15
12 - 12.45	5	5	7	6	9	17	39
13 - 13.1	19	R	R	R	R	R	

R = Refusal

22 October 2021 - Victoria Street, Rossendale - Dynamic Probes

Standard Penetration Tests

DP8

Depth (m)	SPT (S) N=						
1 - 1.45	1	0	0	1	0	0	1
2 - 2.45	0	1	0	1	1	1	3
3 - 3.45	2	2	2	3	2	3	10
4 - 4.45	4	4	4	4	4	3	15
5 - 5.45	3	3	4	4	4	3	15
6 - 6.45	5	4	4	3	5	5	17
7 - 7.45	6	7	6	7	5	5	23
8 - 8.3	8	12	15	R	R	R	

R = Refusal

22 October 2021 - Victoria Street, Rossendale - Dynamic Probes

Standard Penetration Tests

DP9

Depth (m)	SPT (S) N=						
1 - 1.45	0	0	1	1	1	1	4
2 - 2.45	1	1	1	1	1	1	4
3 - 3.45	3	2	2	3	2	3	10
4 - 4.45	2	3	3	3	3	4	13
5 - 5.45	3	5	3	4	5	5	17
6 - 6.45	5	5	4	5	7	5	21
7 - 7.45	6	8	7	7	8	6	28
8 - 8.6	7	7	8	8	10	11	37

R = Refusal



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviron.co.uk | bekenviron.co.uk

ANNEX D

Photographs



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviron.co.uk | bekenviron.co.uk



Photograph 1: Trial Pit TP1



Photograph 2: Trial Pit TP2



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviron.co.uk | bekenviron.co.uk



Photograph 3: Trial Pit TP3



Photograph 4: Trial Pit HD1



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 774 867

mbuckley@bekenviro.co.uk | bekenviro.co.uk



Photograph 5: Trail Pit HD2



Photograph 6: Trail Pit HD3