

Our ref: ARC_PPC_00_XX_RP_G_0012-10569 /HA/Post Demolition Letter Report

Richard Hutchinson
The Challenger Group,
140 Lee Lane,
Horwich,
Bolton,
BL6 7AF

06 September 2024

Dear Richard

**POST DEMOLITION GROUND INVESTIGATION FOR THE CHALLENGER GROUP
ALBANY ROAD, CHORLTON**

Further to your recent instruction Patrick Parsons (PP) undertook additional Ground Investigation at Albany Road, Chorlton on 14 August 2024. The purpose of this investigation was to investigate the ground beneath the recently demolished buildings on site and collect samples of shallow Made Ground to test for a general suite of contaminants to assess the potential for previously unidentified contamination. The investigation comprised a total of 6no. machine excavated trial holes to a maximum depth of 2.70m begl (TP03).

This work followed an initial ground investigation undertaken by Patrick Parsons in May 2023 for Bowsall Developments Ltd, which highlighted an exceedance of the Generic Assessment Criteria (GAC) for PAHs within the Made Ground soils.

This letter report should be read in conjunction with the following reports:

- E3P – Phase I Site Appraisal, report ref: 15-843-R1-1, dated April 2022.
- Patrick Parsons – Phase II Site Appraisal, report ref. ARC-PPC-00-XX-RP-G-0002, dated July 2023.
- Patrick Parsons – Final Gas Risk Assessment, report ref. ARC-00-XX-RP-g-0014, dated August 2023.

Ground Conditions

The site cover comprised of mixed demolition rubble of predominantly orangish-brown gravelly sand with low cobble content of quartzite, concrete, ceramic, ash and metal fragments to a maximum recorded depth of 1.20m begl, but typically recorded to be less than 0.60m thick. Made Ground was recorded below the demolition type materials in exploratory holes TP03 - 06 with variable thicknesses of greyish-brown, orangish-brown and brown granular Made Ground containing brick, ceramic, plastic, ash, quartzite and concrete to between 1.10m begl in TP05 and a maximum recorded depth of 2.00m begl (TP03, TP04 and TP06).

Natural soils were recorded across the north-western holes (TP01 and TP02) at a shallower depth of between 0.50m and 0.60m begl and consisted of greyish-brown gravelly sand with quartzite to a maximum depth of 1.90m begl (TP02). Cohesive glaciofluvial deposits were recorded below the granular natural deposits, where present, and Made Ground in all exploratory holes, comprising dark

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reddish brown, grey or brown slightly gravelly slightly sandy clay with sandstone gravel to a maximum recorded depth of 2.70m begl (TP03).

No visual or olfactory evidence of significant contamination was noted.

Human Health Risk Assessment (Soil)

The previous Patrick Parsons investigation works identified a number of exceedances of the Generic Assessment Criteria (GAC) for residential without homegrown produce end-use (1% Soil Organic Matter) which is deemed the most appropriate for the proposed land use for PAHs, tabulated below.

Location	Determinand	GAC (mg/kg)	Exceedance (mg/kg)
HDP01 at 0.20m	Benzo(b)fluoranthene	3.9	10
	Benzo(a)pyrene	3.2	9.4
	Dibenz(a,h)anthracene	0.31	1.4
WS01 at 0.40m	Naphthalene	2.3	2.7
	Benzo(a)anthracene	11	18
	Benzo(b)fluoranthene	3.9	18
	Benzo(a)pyrene	3.2	15
	Dibenz(a,h)anthracene	0.31	2.1
WS05 at 0.30m	Naphthalene	2.3	4.4
	Benzo(a)anthracene	11	21
	Benzo(b)fluoranthene	3.9	24
	Benzo(a)pyrene	3.2	19
	Dibenz(a,h)anthracene	0.31	2.4
WS02 at 2.20m	Naphthalene	2.3	28
	Benzo(a)anthracene	11	13
	Benzo(b)fluoranthene	3.9	15
	Benzo(a)pyrene	3.2	11
	Dibenz(a,h)anthracene	0.31	1.8
WS06 0.25m	Dibenz(a,h)anthracene	0.31	0.48

Samples have been collected during the post demolition investigation works to assess the area beneath the location of the recently demolished on-site structure to provide site wide coverage and confirm that more significant gross contamination was not present in the previously inaccessible areas of the site.

A total of 6no. samples of Made Ground were tested for a general suite of contaminants including metals, PAHs, TPHs, Speciated VOCs and SVOCs and asbestos in line with the contaminants of concern identified in the previous Conceptual Site Model. These samples were located across the former footprint of the on-site structure.

The results of the post demolition site testing reveal that the Made Ground soils in two trial holes beneath the building footprint have recorded recorded exceedances of the GAC for residential without homegrown produce end-use (1% Soil Organic Matter) which is deemed the most appropriate for the proposed land use. These additional exceedances have been tabulated below:

Determinant	Location	Result (mg/kg)	GAC (mg/kg)
Benzo(a)pyrene	TP03 – 1.30m begl	3.2	3.2
	TP06 – 0.40m begl	5.9	
Benzo(b)fluoranthene	TP06 – 0.40m begl	6.9	3.9
Dibenz(a,h)anthracene	TP03 – 1.30m begl	0.38	0.31
	TP06 – 0.40m begl	0.61	

Six samples of Made Ground were screened for the presence of asbestos; no asbestos was detected during this phase of investigation.

All six samples of Made Ground were analysed for the presence of VOCs and SVOCs. All SVOCs were recorded below the detection limits. However, one VOC - Trichlorofluoromethane was recorded in three locations (TP03 at 1.30m begl - 35µg/kg, TP05 at 0.80m begl - 12µg/kg and TP06 at 0.40m begl - 120 µg/kg). No specific GACs exist for Trichlorofluoromethane. An US EPA document '*Provisional Peer-Reviewed Toxicity Values for Trichlorofluoromethane (CASRN 75-69-4)*' dated 2009 provides only a chronic oral reference dose (RfD) of 3×10^{-1} mg/kg-day and a sub-chronic inhalation concentration (RfC) of 1mg/m³ for trichlorofluoromethane. Given the minor levels recorded within the soils which are an order of magnitude lower than this, and the location of these soils beneath either the proposed building footprint or proposed hardstanding there is considered to be no oral ingestion risk. Based on the recorded concentrations it is unlikely that sufficient volatilisation would occur to produce potentially hazardous concentrations, and as such there is not considered to be an inhalation risk. The Human health risk to end-users from this specific VOC is considered to be negligible.

Whilst additional samples have recorded results for PAHs above their respective GACs, the depth and concentration of contamination across the site remain consistent with previously identified elevations recorded during the original phase of site investigation in May 2023.

While a potential human health risk from the shallow Made Ground soils does exist, and remediation measures will be required to break the source-pathway-receptor linkage and protect the end-users of the proposed development, the level of the most recently recorded exceedances are not such that the previous remediation recommendations are considered invalid or requiring reassessment. The recommended remediation measures are listed in the later sections of this report.

Full results of the chemical analyses undertaken are appended to this report.

Controlled Waters Risk Assessment

Ground conditions encountered during the post demolition investigation recorded up to 2.00m begl of Made Ground, locally underlain by both cohesive and granular Glaciofluvial Deposits (Secondary A Aquifer). The site is not located within a Source Protection Zone and there are no groundwater abstractions within 1000m of the site.

Given the location of the site (mixed residential and commercial setting), the shallow groundwater beneath the site is not considered to be a significantly sensitive receptor as it is highly unlikely that this would ever be utilised for potable abstraction purposes given the historical land-uses of the site and surrounding area resulting in a degraded water body. On this basis, shallow groundwater should be considered as a potential pathway for contaminant migration rather than a receptor and therefore the risks are considered to be low, and no further assessment is considered necessary.

Whilst additional elevations have been recorded across the site, the concentrations and individual contaminants are commensurate with those previously assessed. As such it is deemed that the Groundwater risk assessment outlined within Patrick Parsons Report "Phase II Site Appraisal", report ref. ARC-PPC-00-G-RP-0002, dated July 2024, is considered to still apply. As such it is considered that there is very low risk to controlled waters.

Remediation

The chemical analysis completed to date have shown exceedances of PAHs within the shallow Made Ground soils across the site when compared against their respective GACs for residential end-use without home-grown produce. The test results suggest that the PAH contamination is pervasive in the shallow Made Ground encountered beneath the former hardstanding across the site. As such remediation to protect end-users is required.

Remediation – Clean capping

It is considered based on the levels of the exceedances of the relevant GACs that a clean cover system would be the most appropriate remedial measure sufficient to break the source-pathway-receptor linkage and thus remove the risk to human-health. Placement of 300mm of clean capping in any areas of soft landscaping would be consider sufficient given the levels of exceedances identified. The 300mm capping layer may be comprised of 150mm of subsoil and a minimum of 150mm of topsoil as a growing medium if required.

Guidance on suitable thicknesses of topsoil and subsoil are given within BS 3882:2015 Specification for topsoil, and BS 8601:2013 Specification for subsoil, which state:

“The depth of topsoil spread should not normally exceed 300 mm. Suitable (loosened) subsoil should provide the remainder of the minimum rooting depth. The minimum rooting depth should be normally 450mm for grass, 600mm for shrubs and 900mm for trees.”

Validation – Clean Capping

- Capping validation report which will include a photographic record confirming the required thickness of capping has been placed.
- Testing of the imported materials at the rates described below and comparison to the relevant GACs to demonstrate that the soils are suitable for use.

Where topsoil and subsoil are required for any areas of proposed soft landscaping this will need to be imported. Imported topsoil will need to be chemically validated to ensure it is suitable for a residential with home-grown produce uptake end-use. All imported soils should be chemically validated at the rates shown in the table below (in line with Manchester City Council Planning and Contaminated Land Technical Guidance dated February 2021) :

Source and Validation Rate	Chemical Analysis Suite		
	General Soil Suite	Asbestos	Hydrocarbons (TPHCWG)
Greenfield Source 1 per 200m ³	✓		
Brownfield Source 1 per 150m ³	✓	✓	✓
Generated Soil 1 per 150m ³	✓	✓	✓

The results of the chemical validation should be compared to the GACs for a residential end-use with home-grown produce end-use as included in Appendix E and topsoil should comply with BS3882 specification for topsoil.

Providing that the above remediation is completed and validated successfully it is considered that the site would not pose a risk to human health.

These recommendations should be submitted to the LPA for consideration, and it would be prudent to obtain written confirmation of acceptance prior to undertaking any irrevocable works.

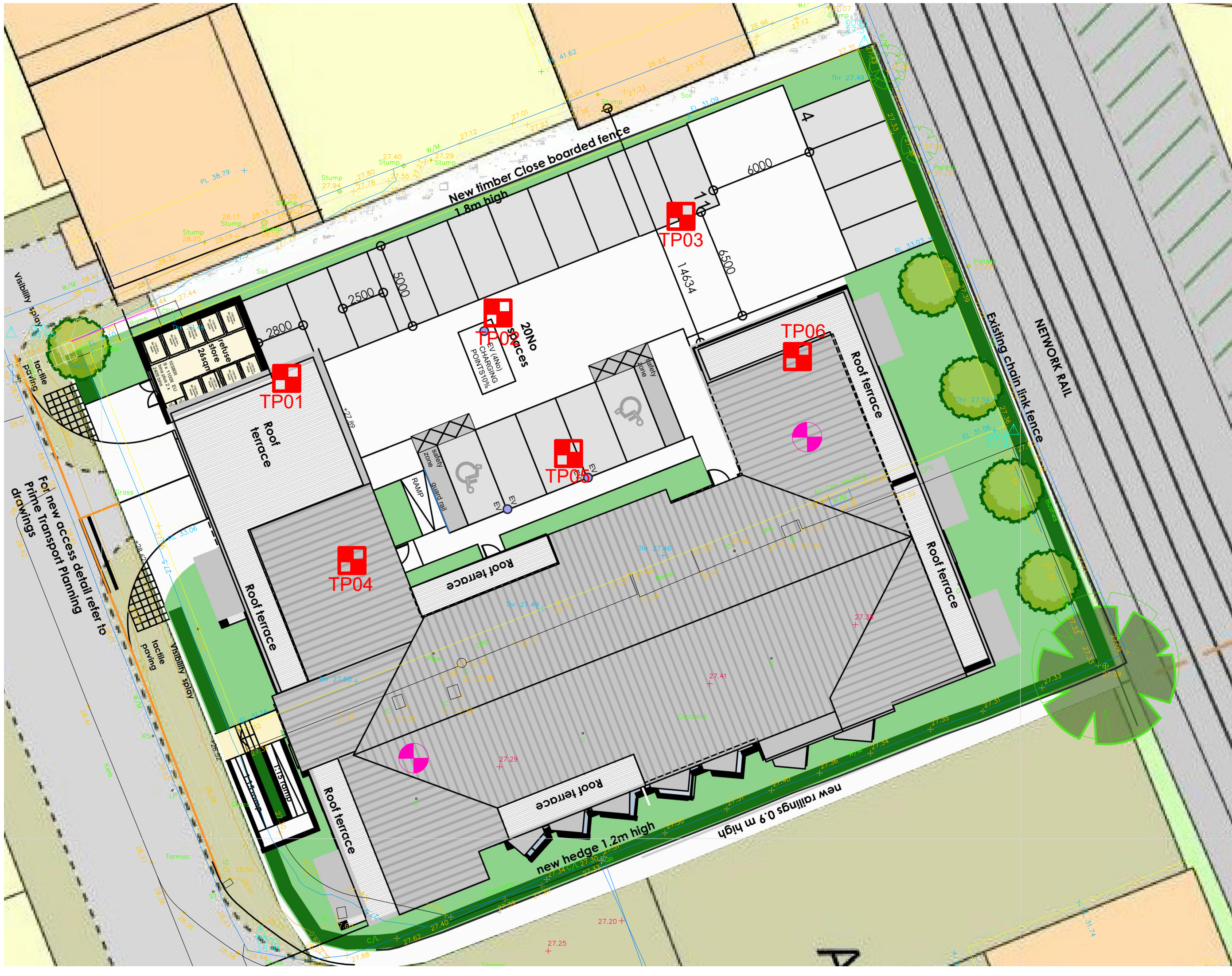
We trust the above is suitable for your current requirements, should you have any queries please do not hesitate to contact us.

Yours sincerely,



Hugh Alder
Senior Engineer

enc. ARC-PPC-00-XX-DR-XX-G-704 – Exploratory Hole Location Plan
 10569 – Exploratory Hole Logs (Post Demolition)
 Chemical Laboratory Testing Results - 23-037084-1



For new access detail refer to
Prime Transport Planning
drawings

GENERAL NOTES
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- Cable Percussive Borehole Location
- Trial Pit Location

Rev.	Amendments	Date	Dr	Chk
Revisions				

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Client
The Challenger Group

Project
Albany Road, Chorlton

Drawing
Exploratory Hole Location Plan

Scales NTS At original size A1

Date	06/09/2024	Drawn by	OB/OD	Checked by	HA
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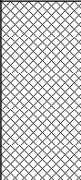
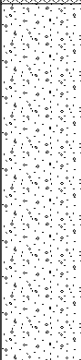
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Drawing No.	ARC-PPC-00-XX-DR-G-704	Rev.	
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Trial Pit Log

TrialPit No
TP01
Sheet 1 of 1

Project Name: Albany Road	Project No. 10569	Co-ords: 381759.00 - 394277.00 Level:	Date 14/08/2024
Location: Chorlton		Dimensions (m): 3.00 2.30	Scale 1:25
Client: Bowsall Developments		Depth 2.40	Logged OB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	ES		0.60			MADE GROUND: Orangish brown very gravelly sand with a low cobble content. Gravel is fine to coarse rounded to subangular black ash, quartzite, concrete, ceramic, metal and rubber. Cobbles are concrete.	1
	0.80	ES					Greyish brown gravelly medium to coarse SAND. Gravel is fine to coarse rounded to subangular quartzite and sandstone.	
	1.90	ES		1.80			Firm brown slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular sandstone.	2
				2.40			End of Pit at 2.40m	3
								4
								5

Remarks: 1) Location CAT scanned prior to excavation. 2) Groundwater encountered at 1.8m begl during excavation. 3) Trial Pit terminated at 2.40m begl due to collapse. 4) Trial Pit backfilled with arisings.	
Stability: Unstable from surface	

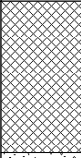
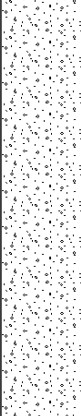
Trial Pit Log

TrialPit No
TP02
Sheet 1 of 1

Project Name: Albany Road Project No. 10569 Co-ords: 381768.00 - 394280.00 Date 14/08/2024

Location: Chorlton Dimensions (m): 2.80 x 3.20 Scale 1:25

Client: Bowsall Developments Depth 2.30 Logged OB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES		0.50			MADE GROUND: Greyish brown gravelly fine to coarse sand with a low cobble content. Gravel is fine to coarse subrounded to subangular quartzite, brick and concrete. Cobbles are brick and concrete.	
	0.80	ES					Light greyish brown medium to coarse gravelly sand. Gravel is fine to medium rounded to subrounded quartzite. (GLACIOFLUVIAL DEPOSITS)	1
				1.90			Firm grey sandy CLAY. (GLACIOFLUVIAL DEPOSITS)	2
				2.30			End of Pit at 2.30m	3
								4
								5

Remarks: 1) Location CAT scanned prior to excavation. 2) Groundwater encountered at 1.8m begl during excavation. 3) Trial Pit terminated at 2.30m begl due to collapse. 4) Trial Pit backfilled with arisings.

Stability: Unstable from 0.2m begl



Trial Pit Log

TrialPit No
TP03
Sheet 1 of 1

Project Name: Albany Road Project No. 10569 Co-ords: 381780.00 - 394284.00 Date 14/08/2024

Location: Chorlton Dimensions (m): 2.40 x 3.30 Scale 1:25

Client: Bowsall Developments Depth 2.70 Logged OB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	ES					MADE GROUND: Greyish brown gravelly fine to coarse sand with a low cobble content. Gravel is fine to coarse subrounded to subangular quartzite, brick and concrete. Cobbles are brick and concrete.	1
	1.30	ES		1.20			MADE GROUND: Dark brown gravelly medium to coarse sand with a low cobble content. Gravel is fine to coarse rounded to subangular quartzite, brick and ash. Cobbles are brick.	
	2.10	ES		2.00			Firm greyish brown mottled grey sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular sandstone. (GLACIOFLUVIAL)	2
				2.70			End of Pit at 2.70m	3
								4
								5

Remarks: 1) Location CAT scanned prior to excavation. 2) No groundwater encountered during excavation. 3) Trial Pit terminated at 2.70m begl. 4) Trial Pit backfilled with arisings.

Stability: Stable

Trial Pit Log

TrialPit No
TP04
Sheet 1 of 1

Project Name: Albany Road	Project No. 10569	Co-ords: 381762.00 - 394266.00 Level:	Date 14/08/2024
Location: Chorlton		Dimensions (m): 4.00 2.40	Scale 1:25
Client: Bowsall Developments		Depth 1.90	Logged OB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.30			MADE GROUND: Greyish brown very gravelly medium sand with a medium cobble content. Gravel is fine to coarse subrounded to subangular brick, concrete, metal, wire, plastic, paper. Cobbles are brick and concrete.	
							MADE GROUND: Greyish brown slightly gravelly coarse sand. Gravel fine to coarse subrounded to subangular quartzite, brick, ceramic and plastic.	
	0.90	ES		1.10			Firm grey mottled brown slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to rounded sandstone.	1
	1.30	ES					(GLACIOFLUVIAL DEPOSITS)	
				1.90			End of Pit at 1.90m	2
								3
								4
								5

Remarks: 1) Location CAT scanned prior to excavation. 2) No groundwater encountered during excavation. 3) Trial Pit terminated at 1.90m begl. 4) Trial Pit backfilled with arisings.

Stability: Stable



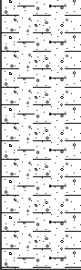
Trial Pit Log

TrialPit No
TP05
Sheet 1 of 1

Project Name: Albany Road Project No. 10569 Co-ords: 381776.00 - 394271.00 Date 14/08/2024

Location: Chorlton Dimensions (m): 2.10 x 3.70 Scale 1:25

Client: Bowsall Developments Depth 2.00 Logged OB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20			MADE GROUND: Greyish brown slightly clayey gravelly fine to coarse sand. Gravel is fine to coarse rounded to subangular quartzite, brick, concrete, plastic, rebar, wire and metal.	
							MADE GROUND: Orangish brown gravelly medium to coarse sand. Gravel is fine to coarse subrounded to subangular quartzite, brick, ash and sandstone.	
	0.80	ES		1.10			Purplish mottled grey and brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to subangular sandstone. (GLACIOFLUVIAL DEPOSITS)	1
				2.00			End of Pit at 2.00m	2
								3
								4
								5

Remarks: 1) Location CAT scanned prior to excavation. 2) Groundwater encountered at 1.3m begl during excavation.. 3) Trial Pit terminated at 2.00m begl. 4) Trial Pit backfilled with arisings.

Stability: Stable

Trial Pit Log

TrialPit No
TP06
Sheet 1 of 1

Project Name: Albany Road Project No. 10569 Co-ords: 381789.00 - 394275.00 Date 14/08/2024

Location: Chorlton Dimensions (m): 2.90 Scale 1:25

Client: Bowsall Developments Depth 2.30 Logged OB

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.40	ES		0.50			MADE GROUND: Brown very gravelly coarse sand with a medium cobble content. Gravel is fine to coarse subrounded to angular concrete, brick, metal, wood and rebar. Cobbles are brick and concrete.
	0.70	ES					MADE GROUND: Black slightly clayey gravelly coarse sand. Gravel is fine to coarse subrounded to angular plastic, brick, metal, rebar, wood, concrete, charcoal, slate and rubber.
				2.00			Firm dark reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium subangular to subrounded sandstone.
				2.30			(GLACIOFLUVIAL DEPOSITS) End of Pit at 2.30m

Remarks: 1) Location CAT scanned prior to excavation. 2) No groundwater encountered during excavation. 3) Trial Pit terminated at 2.30m begl. 4) Trial Pit backfilled with arisings.

Stability: Unstable from 1.2m begl



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Analytical Report Number : 24-037084

Project / Site name:	Albany Road, Chorlton	Samples received on:	16/08/2024
Your job number:	10569	Samples instructed on/ Analysis started on:	16/08/2024
Your order number:	3077	Analysis completed by:	23/08/2024
Report Issue Number:	1	Report issued on:	23/08/2024
Samples Analysed:	6 soil samples		

Signed:



Rafał Szczepańczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-037084
Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number	290452	290453	290454	290455	290456
Sample Reference	TP01	TP02	TP03	TP04	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.80	0.80	1.30	0.90	0.80
Date Sampled	14/08/2024	14/08/2024	14/08/2024	14/08/2024	14/08/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	29.1	< 0.1	9.1	< 0.1	21.6
Moisture Content	%	0.01	NONE	6.6	6.4	8.5	5.2	7.9
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.6	0.6	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KJK	KJK	KJK	KJK	KJK

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.5	8.1	8.6	9.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	210	75	2400	170	460
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	99	44	2000	95	380
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	49.7	22	998	47.5	190
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.2	0.3	0.7	0.4	0.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.05	< 0.05	0.06
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.06	0.59	0.15	0.16
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.47	0.08	0.1
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.37	4.7	1.3	1.3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.07	1.6	0.28	0.35
Fluoranthene	mg/kg	0.05	MCERTS	0.1	0.58	8.3	2.7	2.5
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.57	7.3	2.7	2.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.21	3	1.2	0.99
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.24	3	1.2	1.1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.08	0.26	3.4	1.5	1.3
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.09	1.2	0.63	0.59
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.1	0.26	3.2	1.3	1.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.14	1.5	0.64	0.66
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.38	0.1	0.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.17	1.7	0.79	0.74

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	3.01	40.5	14.5	13.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.1	2.1	5.4	2.8	5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	6	8.4	9.1	6.4	9.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	6.4	8.3	12	25	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	4.8	4.6	18	17	19
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.8	6.6	7.3	6.7	9.7
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	27	18	37	27	34

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Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number	290452	290453	290454	290455	290456
Sample Reference	TP01	TP02	TP03	TP04	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.80	0.80	1.30	0.90	0.80
Date Sampled	14/08/2024	14/08/2024	14/08/2024	14/08/2024	14/08/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	13	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	13	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	7.1	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	52	20	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	110	52	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	20	< 10	< 10
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	180	72	< 10

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	200	72	< 10
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VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	35	< 5.0	12
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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Lab Sample Number				290452	290453	290454	290455	290456
Sample Reference				TP01	TP02	TP03	TP04	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.80	1.30	0.90	0.80
Date Sampled				14/08/2024	14/08/2024	14/08/2024	14/08/2024	14/08/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analytical Report Number: 24-037084
Project / Site name: Albany Road, Chorlton
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Lab Sample Number				290452	290453	290454	290455	290456
Sample Reference				TP01	TP02	TP03	TP04	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.80	1.30	0.90	0.80
Date Sampled				14/08/2024	14/08/2024	14/08/2024	14/08/2024	14/08/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Azobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	NONE	< 0.3	< 0.3	0.4	< 0.3	< 0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Pesticides

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Alachlor	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Bifenthrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Omethoate	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Dimethylvinphos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Demeton-O	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Demeton-S	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Endrin Aldehyde	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Endrin Ketone	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Cis-Permethrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Endosulfan sulfate	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Etrinfos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Hexachlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Mevinphos, E+Z	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Pentachlorobenzene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Propetamphos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Tecnazene	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Triadimefon	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Trans-Permethrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Aldrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Azinphos-methyl	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Beta-BHC	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Cis-Chlordane	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

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Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number				290452	290453	290454	290455	290456
Sample Reference				TP01	TP02	TP03	TP04	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.80	1.30	0.90	0.80
Date Sampled				14/08/2024	14/08/2024	14/08/2024	14/08/2024	14/08/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Chlorfenvinphos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Chlorpyrifos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Chlorothalonil	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Carbophenothion	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Delta-BHC	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Dieldrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Deltamethrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Endrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Fenthion	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Isodrin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Methacrifos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
O,p'-DDD	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
O,p'-DDE	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
O,p'-DDT	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Parathion	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Parathion-methyl	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Pendimethalin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Phorate	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Phosalone	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
P,p'-DDD	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
P,p'-DDE	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
P,p'-DDT	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
P,p'-Methoxychlor	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Propyzamide	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Triazophos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Trans-Chlordane	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Dichlorvos	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Dimethoate	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Diazinon	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Ethion	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Fenitrothion	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Malathion	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Pirimiphos-methyl	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Trifluralin	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Azinphos-ethyl	µg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-037084
Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number	290457			
Sample Reference	TP06			
Sample Number	None Supplied			
Depth (m)	0.40			
Date Sampled	14/08/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	34
Moisture Content	%	0.01	NONE	6.4
Total mass of sample received	kg	0.1	NONE	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	NNI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	9.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	3200
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3400
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	1680
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.6
Acenaphthylene	mg/kg	0.05	MCERTS	0.16
Acenaphthene	mg/kg	0.05	MCERTS	1.2
Fluorene	mg/kg	0.05	MCERTS	0.99
Phenanthrene	mg/kg	0.05	MCERTS	6.8
Anthracene	mg/kg	0.05	MCERTS	1.9
Fluoranthene	mg/kg	0.05	MCERTS	12
Pyrene	mg/kg	0.05	MCERTS	11
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5
Chrysene	mg/kg	0.05	MCERTS	5.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	6.9
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	2.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	5.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.9
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.61
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	69.5
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	40
Lead (aqua regia extractable)	mg/kg	1	MCERTS	88
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.4
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	95

Analytical Report Number: 24-037084
 Project / Site name: Albany Road, Chorlton
 Your Order No: 3077

Lab Sample Number				290457
Sample Reference				TP06
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				14/08/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	2.3
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	11
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	33
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	46

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	1.7
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	9.8
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	69
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	150
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	19
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	250

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	300
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VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	120
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0

Analytical Report Number: 24-037084
Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number				290457
Sample Reference				TP06
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				14/08/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Tetrachloroethene	µg/kg	5	NONE	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1

Analytical Report Number: 24-037084
Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number				290457
Sample Reference				TP06
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				14/08/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	0.6
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	0.4
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	0.6
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2
Azobenzene	mg/kg	0.3	NONE	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.30
Carbazole	mg/kg	0.3	MCERTS	0.4
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2
Anthraquinone	mg/kg	0.3	NONE	< 0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3

Pesticides

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10
Alachlor	µg/kg	10	NONE	< 10
Bifenthrin	µg/kg	10	NONE	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10
Omethoate	µg/kg	10	NONE	< 10
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10
Dimethylvinphos	µg/kg	10	NONE	< 10
Demeton-O	µg/kg	10	NONE	< 10
Demeton-S	µg/kg	10	NONE	< 10
Endrin Aldehyde	µg/kg	10	NONE	< 10
Endrin Ketone	µg/kg	10	NONE	< 10
Hexachlorobutadiene	µg/kg	10	NONE	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	< 10
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10
Cis-Permethrin	µg/kg	10	NONE	< 10
Endosulfan sulfate	µg/kg	10	NONE	< 10
Etrinfos	µg/kg	10	NONE	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	< 10
Hexachlorobenzene	µg/kg	10	NONE	< 10
Mevinphos, E+Z	µg/kg	10	NONE	< 10
Pentachlorobenzene	µg/kg	10	NONE	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	< 10
Propetamphos	µg/kg	10	NONE	< 10
Tecnazene	µg/kg	10	NONE	< 10
Triadimefon	µg/kg	10	NONE	< 10
Trans-Permethrin	µg/kg	10	NONE	< 10
Aldrin	µg/kg	10	NONE	< 10
Azinphos-methyl	µg/kg	10	NONE	< 10
Beta-BHC	µg/kg	10	NONE	< 10
Cis-Chlordane	µg/kg	10	NONE	< 10

Analytical Report Number: 24-037084
Project / Site name: Albany Road, Chorlton
Your Order No: 3077

Lab Sample Number				290457
Sample Reference				TP06
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				14/08/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Chlorfenvinphos	µg/kg	10	NONE	< 10
Chlorpyrifos	µg/kg	10	NONE	< 10
Chlorothalonil	µg/kg	10	NONE	< 10
Carbophenothion	µg/kg	10	NONE	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10
Delta-BHC	µg/kg	10	NONE	< 10
Dieldrin	µg/kg	10	NONE	< 10
Deltamethrin	µg/kg	10	NONE	< 10
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10
Endrin	µg/kg	10	NONE	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10
Fenthion	µg/kg	10	NONE	< 10
Isodrin	µg/kg	10	NONE	< 10
Methacrifos	µg/kg	10	NONE	< 10
O,p'-DDD	µg/kg	10	NONE	< 10
O,p'-DDE	µg/kg	10	NONE	< 10
O,p'-DDT	µg/kg	10	NONE	< 10
Parathion	µg/kg	10	NONE	< 10
Parathion-methyl	µg/kg	10	NONE	< 10
Pendimethalin	µg/kg	10	NONE	< 10
Phorate	µg/kg	10	NONE	< 10
Phosalone	µg/kg	10	NONE	< 10
P,p'-DDD	µg/kg	10	NONE	< 10
P,p'-DDE	µg/kg	10	NONE	< 10
P,p'-DDT	µg/kg	10	NONE	< 10
P,p'-Methoxychlor	µg/kg	10	NONE	< 10
Propyzamide	µg/kg	10	NONE	< 10
Triazophos	µg/kg	10	NONE	< 10
Trans-Chlordane	µg/kg	10	NONE	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	< 10
Dichlorvos	µg/kg	10	NONE	< 10
Dimethoate	µg/kg	10	NONE	< 10
Diazinon	µg/kg	10	NONE	< 10
Ethion	µg/kg	10	NONE	< 10
Fenitrothion	µg/kg	10	NONE	< 10
Malathion	µg/kg	10	NONE	< 10
Pirimiphos-methyl	µg/kg	10	NONE	< 10
Trifluralin	µg/kg	10	NONE	< 10
Azinphos-ethyl	µg/kg	10	NONE	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-037084
Project / Site name: Albany Road, Chorlton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
290452	TP01	None Supplied	0.8	Brown sand with gravel and stones
290453	TP02	None Supplied	0.8	Brown sand with gravel
290454	TP03	None Supplied	1.3	Brown sand with gravel and stones
290455	TP04	None Supplied	0.9	Brown sand with gravel
290456	TP05	None Supplied	0.8	Brown sandy loam with gravel and stones
290457	TP06	None Supplied	0.4	Brown sandy loam with gravel and stones

Analytical Report Number : 24-037084

Project / Site name: Albany Road, Chorlton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Pesticides by GC-MS/MS	Determination of Pesticides in soil by GC MS/MS	In-house method	L055B	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS

Analytical Report Number : 24-037084

Project / Site name: Albany Road, Chorlton

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution