

Wythenshawe

Factual Site Investigation Report

23 October 2025

Prepared For

Muse and Manchester City Council



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Factual Site Investigation Report

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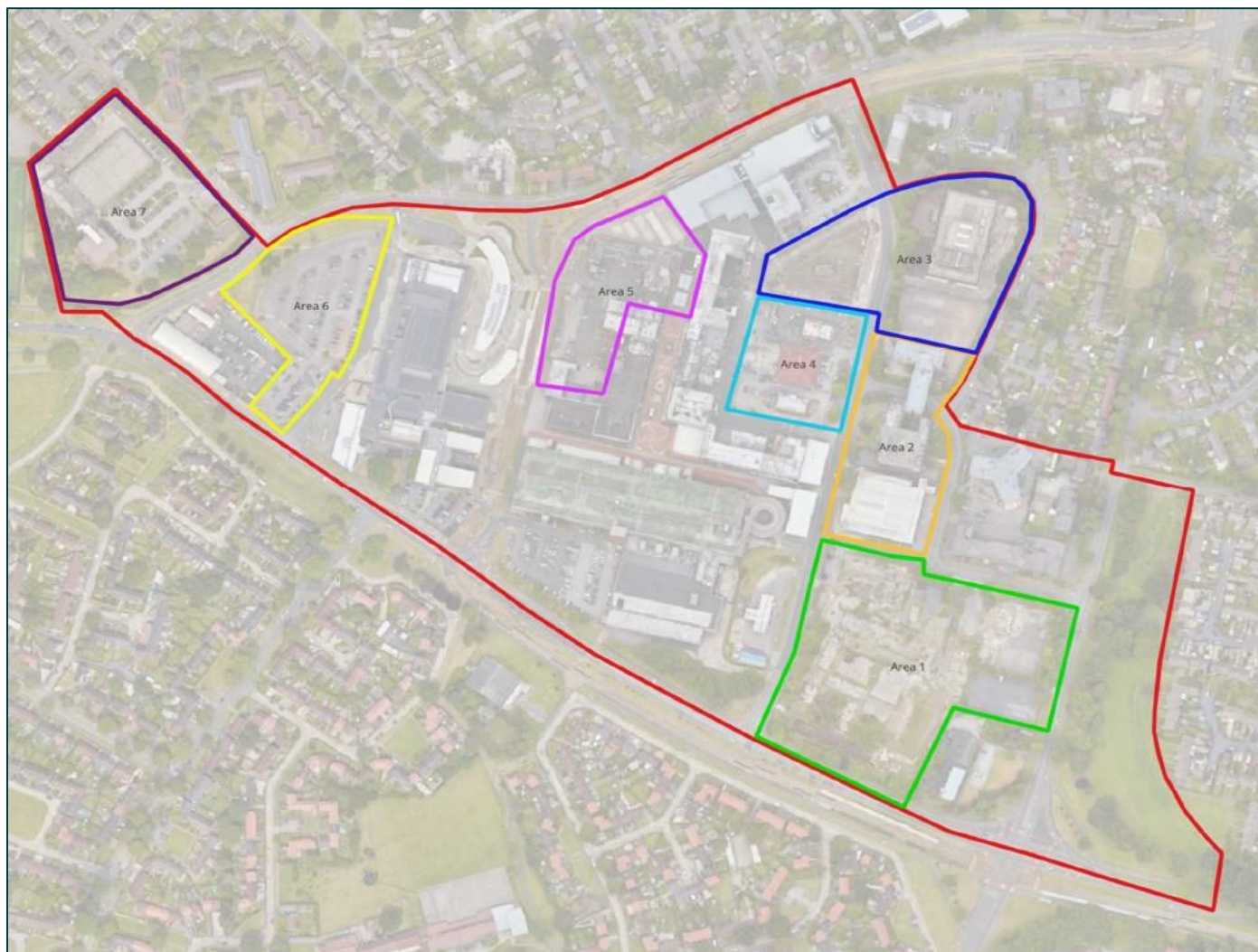
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1. Introduction

Civic Earth Limited was appointed in August 2025 by Civic Engineers, on behalf of Muse and Manchester City Council (the Clients), to undertake a preliminary geotechnical and geoenvironmental site investigation in accessible areas of the proposed redevelopment of Wythenshawe town centre site to inform the master planning stage, herein referred to as “the site”. The site includes 7 develop areas , which are indicated in Plate 1.

Plate 1: Site Layout Plan



Civic Earth undertook a high level desk study of the 7 development areas within the proposed Wythenshawe Masterplan Area in April 2025¹.

This document presents the factual data obtained from the preliminary site investigation undertaken at the site,, including exploratory hole logs, chemical and geotechnical laboratory data, in-situ test data and ground gas and groundwater monitoring data. Interpretation of the data gathered in this investigation is not included within the scope of this report.

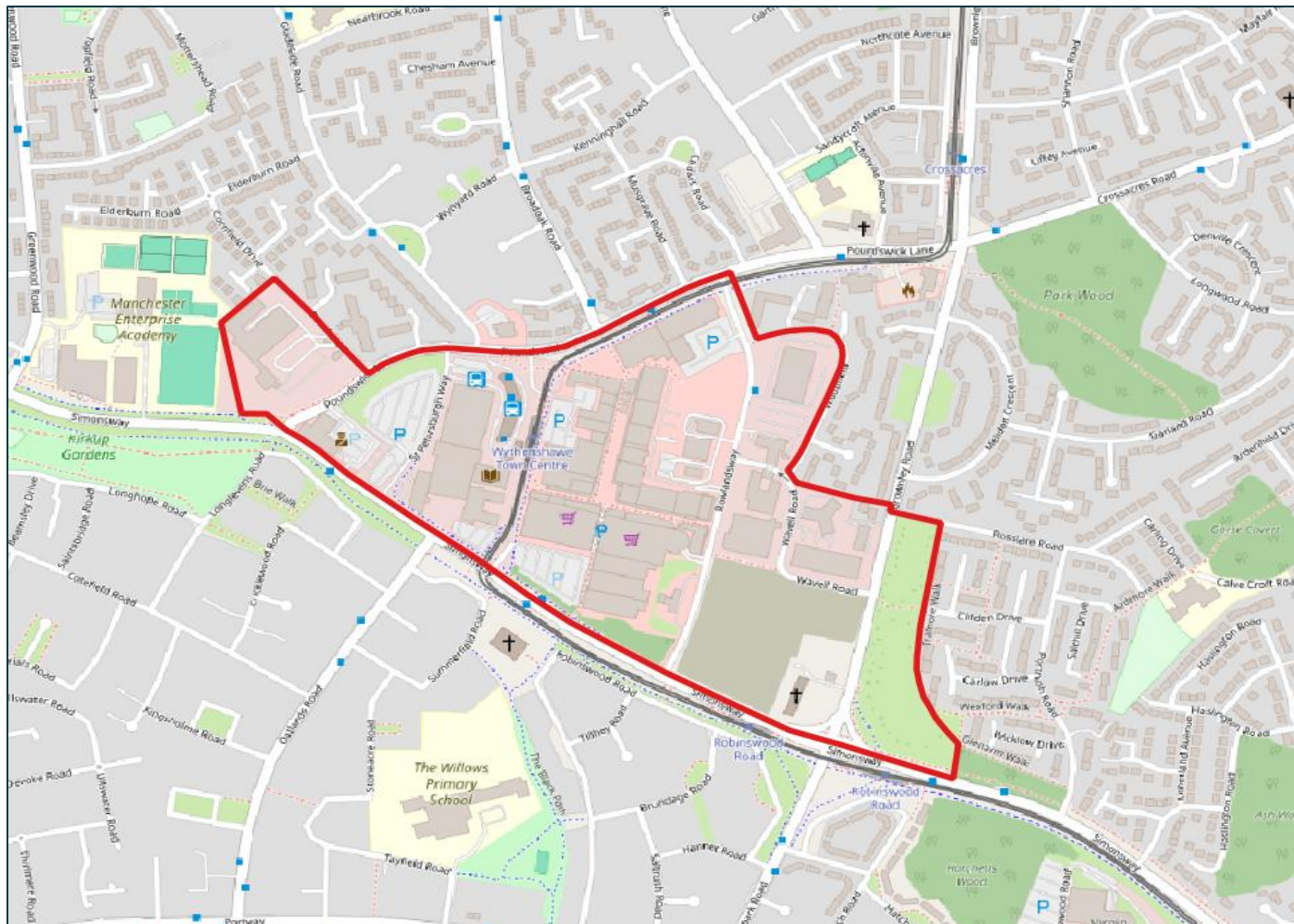
¹ Civic Earth (2025) Wythenshawe Preliminary Ground Conditions Assessment. Reference: 51143-CE-XX-XX-R-G-1008. P01. 11 April 2025.

2. Site Context

2.1. Site Location

The site is located within Wythenshawe City Centre and occupies land between Brownley Road in the east, Simonsway in the south and Poundswick Lane in the north and west. The site location, showing the wider masterplan area, is illustrated in Plate 2. The National Grid coordinates for the approximate centre of the site area 382558E, 386996N and the site is approximately 27.9 hectares in size.

Plate 2: Approximate Site Location Plan (©OpenStreetMap Contributors)



2.2. Site Description

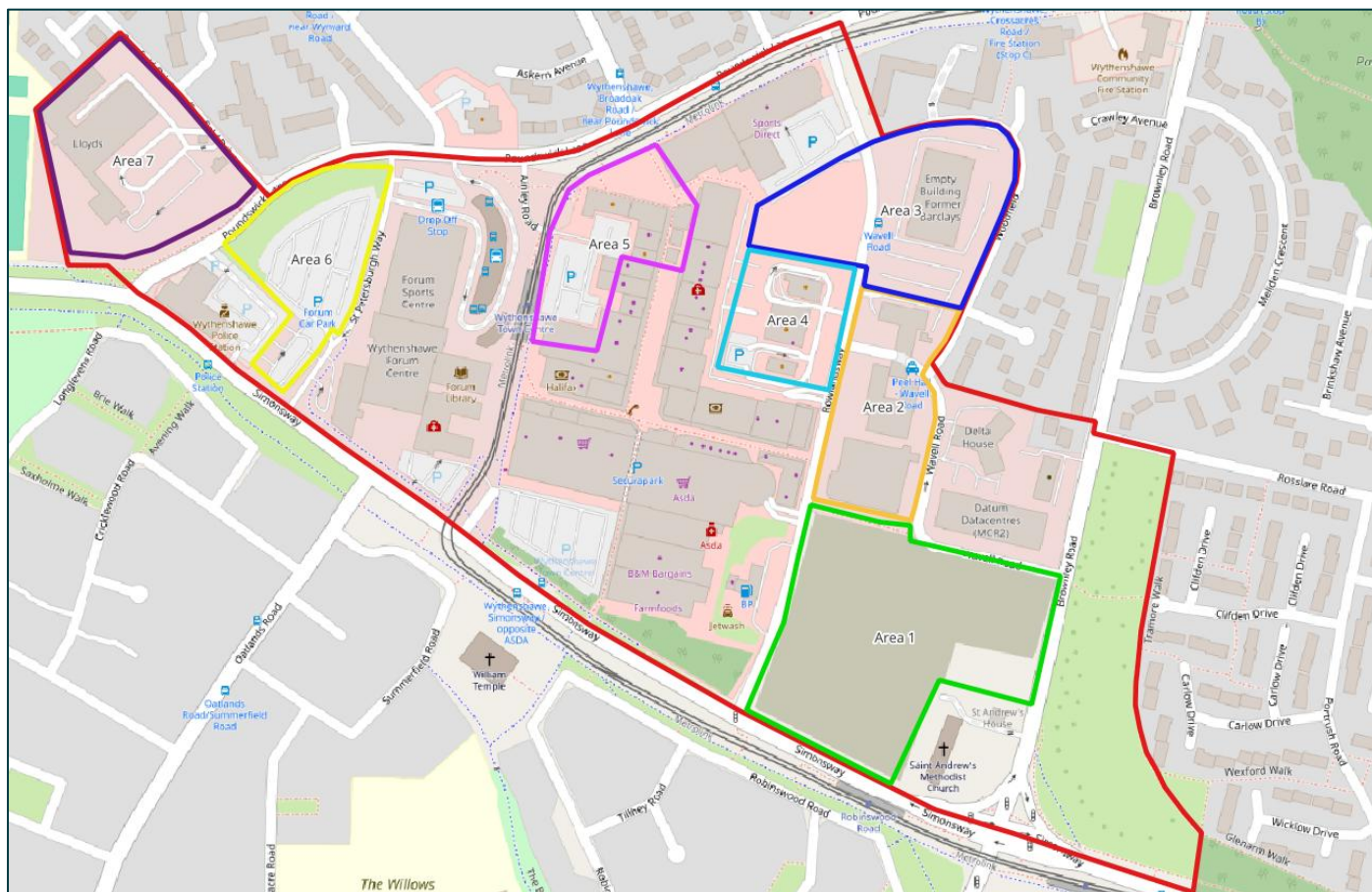
The site is divided into seven development areas. A summary of the seven areas is provided below and the existing site layout is illustrated in Plate 3. Note that the areas are also sometimes referred to under a different title, which has also been reference below for clarity.

- **Area 1 (1.1, 1.2, 1.3):** roughly square in shape and comprises derelict land, with part of the northeastern site area occupied by a site compound. Wavell Road bounds the area to the north, Brownley Road to the east, Simonsway to the south and Rowlandsway to the west. Wythenshawe Methodist Church and MCC staff carpark bounds the site to the immediate southeast.
- **Area 2 (1.4, 2.1):** roughly rectangular in shape, with Wavell Road extending through the central site area. The site is occupied by commercial properties to the south of Wavell Road and a carpark and office type building in the north. The office type building oversails Wavell Road. The site is bound by Area 3 to the north, Wavell Road and Woodfield to the east, a footpath and Area 1 to the south and Rowlandsway to the west.
- **Area 3 (2.2, 2.3.2.4):** roughly oval in shape with Rowlandsway extending north-south through the central site area. The area to the east of Rowlandsway is occupied by the former Barclays building, while the area to the west is occupied by a former commercial property with associated carparking. The site is bound by Woodfield ring road to the north and east, by Area 2 to the south, by a car park to the northwest and by commercial properties (of Wythenshawe Civic Shopping Centre) to the west.
- **Area 4 (C1):** roughly square in shape and occupied by a McDonalds restaurant in the north, further retail units (including a tile and bathroom showroom, a Domino's restaurant and tanning salon) in the central site area and a KFC restaurant. The site bound to the north by Area 3, Rowlandsway to the East, Hale Top to the south and the

commercial properties (of Wythenshawe Civic Shopping Centre) to the west.

- **Area 5 (C2):** irregular in shape and occupied by service yards of various retail units (of Wythenshawe Civic Shopping Centre), along with associated areas of car parking. The site is bound to the north and west by Manchester tramway, by retail units to the south, east and northeast.
- **Area 6 (3.1, 3.2):** irregular in shape and occupied by the Forum car park. The site is bound by Poundswick Lane to the north and west, Wythenshawe Police Station to the southwest, Simonsway to the south and St Petersburg Way to the east.
- **Area 7 (3.3):** roughly rectangular in shape and occupied by the former Lloyds Banks buildings with associated carparking. The site is bound to the north by residential properties located on Ribchester Drive, by Cornfield Drive to the east, Poundswick Lane to the south and woodland a 5-a-side football pitch to the west.

Plate 3: Existing Site Layout



2.3. Proposed Development

At the time of writing, detailed design for the redevelopment is underway.

3. Site Investigation

3.1. Introduction

A preliminary site investigation has been undertaken within accessible areas of the site between 5 August 2025 and 26 August 2025 and a summary of the intrusive works completed is summarised in Table 1.

Table 1: Summary of Exploratory Hole Locations

Location Reference	Type of Exploratory Hole	Ground Level (mOD)	Base Depth (mbgl)	Base Levels (mOD)	Reason for Termination
Area 1					
WS01	WS	62.86	2.00	60.86	Terminated due to refusal.
WS02	WS	62.77	0.15	62.62	Terminated due to adverse weather conditions. Borehole redrilled as WS02A the following day.
WS02A	WS	62.70	2.00	60.70	Terminated due to refusal.
WS03	WS	62.41	0.57	61.84	Terminated due to potential services. Borehole moved and redrilled as WS03A.
WS03A	WS	62.41	1.30	61.11	Terminated due to concrete obstruction.
WS04	WS	62.13	3.00	59.13	Terminated due to refusal.
WS05	WS	63.10	3.60	59.50	Terminated due to refusal.
WS14	WS	61.49	2.50	58.99	Terminated due to refusal.
RC04	RH	62.75	0.30	62.45	Concrete cored but not drilled due to access constraints.
Area 2					
WS06	WS	59.51	-	-	Exploratory hole not drilled due to access constraints
WS07	WS	61.51	2.60	58.91	Terminated due to refusal.
WS08	WS	61.68	3.00	58.68	Terminated due to refusal.
WS15	WS	61.68	3.00	58.68	Terminated due to refusal.
Area 3					
WS09	WS	59.48	-	-	Exploratory holes not drilled due to access constraints
WS10	WS	59.54	-	-	
WS11	WS	58.99	-	-	
WS12	WS	59.33	3.30	56.03	Terminated due to refusal.
WS13	WS	59.47	4.50	54.97	Terminated due to refusal.
WS17	WS	59.28	3.45	55.83	Terminated due to refusal.
WS18	WS	59.46	3.45	56.01	Terminated due to refusal.
Area 4					
No investigations undertaken within Area 4, as per the Client's request, given that the site is currently active.					
Area 5					
WS16	WS	60.06	0.30	59.75	Terminated due to potential services. Borehole moved and redrilled as WS16A.
WS16A	WS	60.03	0.25	59.78	Terminated due to potential services.
WS19	WS	60.20	0.10	60.10	Terminated due to potential services. Borehole moved and redrilled as WS19A.

Location Reference	Type of Exploratory Hole	Ground Level (mOD)	Base Depth (mbgl)	Base Levels (mOD)	Reason for Termination
WS19A	WS	59.95	2.25	57.70	Terminated due to refusal.
WS20	WS	59.90	3.45	56.45	Terminated due to refusal.
RC05	RH	59.87	15.00	44.87	Achieved target depth.
TP06	FIP	60.23	-	-	Foundation inspection pits not completed due to access constraints.
TP07	FIP	59.93	-	-	
TP08	FIP	59.98	1.20	58.78	
TP09	FIP	Internal*	1.20	-	Achieved target depth.
Area 6					
No investigations undertaken within Area 4, as per the Client's request, given that the site is currently active.					
Area 7					
WS21	WS	58.70	2.80	55.90	Terminated due to refusal.
WS22	WS	59.23	2.00	57.23	Terminated due to refusal.
WS23	WS	58.37	2.00	56.37	Terminated due to sides collapsing.
WS24	WS	59.84	2.20	57.64	Terminated due to refusal.
WS25	WS	59.90	2.80	57.10	Terminated due to refusal.
WS26	WS	59.78	2.50	57.28	Terminated due to refusal.
WS27	WS	58.41	2.50	55.91	Terminated due to refusal.
WS28	WS	58.59	2.50	56.09	Terminated due to refusal.
RC01	RH	58.50	15.00	43.50	Achieved target depth.
RC02	RH	58.92	15.00	43.92	Achieved target depth.
RC03	RH	59.71	15.00	44.71	Achieved target depth.
RC06	RH	58.68	15.00	43.68	Achieved target depth.
TP01	FIP + TP	60.00	2.00	58.00	Achieved target depth.
TP02	FIP + TP	59.21	2.00	57.21	Achieved target depth.
TP03 (FIP03)	FIP	59.14	1.20	57.94	Achieved target depth.
TP04	FIP	58.71	1.20	57.51	Achieved target depth.
TP05	FIP	58.71	1.20	57.51	Achieved target depth.

; WS = window sample borehole; RH = rotary cored hole, FIP = foundation inspection trial pit; TP = trial pit * = Not Available as internal position; ** Unable to GPS

Prior to breaking ground, exploratory holes were cleared for buried services by a specialist utility contractor utilising a cable avoidance tool (CAT) and signal generator. Coordinates and ground levels were surveyed, where possible, for each exploratory hole position.

Given the current active nature of the site, no intrusive investigations were undertaken within Areas 4 or 6, as per the Client's request. Similarly, some of the proposed exploratory positions within Areas 3 and 5 were not undertaken due to access constraints, as set out in Table 1.

The investigation was undertaken in general accordance with the requirements of BS 5930:2015+A1:2020² and BS 10175:2011+A2:2017³. Exploratory hole location plans are included in [Appendix A](#). The trial pit/foundation inspection trial pit and borehole exploratory hole records are included in [Appendix B](#).

In-situ Standard Penetration Tests (SPTs) were carried out within the rotary boreholes and window sample boreholes. In addition, hand shear vane (HSV) tests were undertaken where suitable cohesive soil samples were retrieved.

² British Standards Institution (2015) Code of practice for ground investigations. BS 5930:2015+A1:2020.

³ British Standards Institution (2017) Investigation of potentially contaminated sites – Code of practice. BS 10175:2011+A2:2017.

3.2. Ground Gas and Groundwater Monitoring

A total of three ground gas and groundwater monitoring visits have been carried out across the site. The monitoring visits were completed on 4 and 5 September, 16 and 17 September and 30 September 2025. A summary of the monitoring wells installed is provided in Table 2 and the ground gas and groundwater monitoring records are included in [Appendix C](#).

Table 2: Summary of Ground Gas Monitoring Well Response Zones

Location Reference	Target Response Zone	Response Zone Top Depth (mbgl)	Response Zone Base Depth (mbgl)	Response Zone Top Level (mOD)	Response Zone Base Level (mOD)
Area 1					
WS01	Made Ground	0.50	1.20	62.36	61.66
WS02A	Glacial Till	1.00	2.00	61.70	60.70
WS04	Made Ground	0.50	1.00	61.63	61.13
WS05	Made Ground / Peat / Weathered Bollin Mudstone Member	1.50	3.00	61.60	60.10
Area 2					
WS07	Glacial Till	1.00	2.60	60.51	58.81
WS08	Glacial Till	1.00	2.50	60.68	59.18
WS15	Glacial Till	1.00	2.50	60.68	59.18
Area 3					
WS13	Made Ground	0.50	1.40	58.97	58.07
WS17	Glacial Till	1.00	3.00	58.28	56.28
WS18	Made Ground	0.80	1.50	58.66	57.96
Area 5					
WS19A	Glacial Till	0.80	1.80	59.15	58.15
WS20	Made Ground	0.50	1.00	59.40	58.90
RC05	Bollin Mudstone Member	3.00	15.00	56.87	44.87
Area 7					
WS21	Glacial Till / Weathered Bollin Mudstone Member	1.50	2.50	57.20	56.20
WS23	Made Ground	0.50	1.00	57.87	57.37
WS24	Made Ground / Glacial Till	1.00	2.00	58.84	57.84
WS25	Made Ground	0.50	1.00	59.40	58.90
WS26	Made Ground	0.50	1.00	59.28	57.78
WS27	Glacial Till / Weathered Bollin Mudstone Member	1.50	2.50	56.91	55.91
RC01	Bollin Mudstone Member	3.00	15.00	55.50	43.50
RC02	Bollin Mudstone Member	3.00	15.00	55.92	43.92
RC03	Bollin Mudstone Member	2.00	14.00	57.71	45.71
RC06	Bollin Mudstone Member	3.00	15.00	55.68	43.68

3.3. Groundwater Sampling

One round of groundwater sampling has been carried out at the site on 16 and 17 September 2025, with 4 groundwater samples obtained from the Principal aquifer within the Bollin Mudstone Member (RC01, RC02, RC05 and RC06) and 5

groundwater samples obtained from the Made Ground / Glacial Till (WS01, WS02A, WS05, WS13 and WS18).

The groundwater sampling records are included in [Appendix C](#).

3.4. Chemical Laboratory

3.4.1. Soil Testing

Selected soil samples were submitted to i2 Analytical Limited (a UKAS and MCERTS accredited laboratory) for chemical soil testing. The analysis included the following determinants and the results are included in [Appendix D](#).

- 55 Nr. pH
- 55 Nr. soil organic matter (SOM);
- 55 Nr. total sulphate as SO₄;
- 48 Nr. total cyanide;
- 48 Nr. heavy metal suite (antimony, arsenic, barium, beryllium, boron, cadmium, chromium (III and VI), copper, lead, mercury, nickel, selenium, vanadium and zinc);
- 55 Nr. polycyclic aromatic hydrocarbons (PAH);
- 48 Nr. total petroleum hydrocarbons (TPH);
- 48 Nr. total monohydric phenols;
- 55 Nr. BTEX compounds (benzene, toluene, ethylbenzene, xylenes);
- 5 No. volatile organic compounds (VOCs);
- 5 No. semi-volatile organic compounds (SVOCs);
- 1 No. polychlorinated phenols (PCBs);
- 9 Nr. Waste Acceptance Criteria (WAC) tests;
- 43 Nr. asbestos screen and identification; and
- 2 Nr. asbestos quantification.

3.4.2. Leachate Testing

Selected soil samples were submitted to i2 Analytical Limited (a UKAS and MCERTS accredited laboratory) for chemical soil leachate testing. The analysis included the following determinants and the results are included in [Appendix D](#).

- 2 Nr. pH
- 2 Nr. dissolved organic carbon (DOC);
- 2 Nr. total sulphate as SO₄;
- 2 Nr. total cyanide;
- 2 Nr. heavy metal suite (antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium (III and VI), copper, lead, mercury, nickel, selenium, vanadium and zinc);
- 2 Nr. PAH;
- 2 Nr. TPH;
- 2 Nr. total monohydric phenols;

3.4.3. Groundwater Testing

Selected water samples were submitted to i2 Analytical Limited (a UKAS and MCERTS accredited laboratory) for chemical water testing. The analysis included the following determinants and the results are included in [Appendix E](#).

- 12 Nr. pH
- 12 Nr. dissolved organic carbon (DOC);
- 12 Nr. total sulphate as SO₄;
- 12 Nr. ammoniacal nitrogen as N;
- 12 Nr. total cyanide;
- 5 Nr. free cyanide;
- 12 Nr. hardness;

- 12 Nr. heavy metal suite (antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium (III and VI), copper, lead, magnesium, mercury, nickel, selenium, vanadium and zinc);
- 12 Nr. PAH;
- 12 Nr. BTEX compounds;
- 12 Nr. TPH;
- 12 Nr. total monohydric phenols;

3.5. Geotechnical Laboratory Analysis

Selected soil and rock samples were submitted to Geolabs Limited (a UKAS accredited laboratory) for geotechnical testing in general accordance with BS 1377⁴. The following tests were scheduled and the results are included in [Appendix F](#).

- 1 Nr. particle size distribution (PSD) (wet sieve);
- 13 Nr. Atterberg (4 Point);
- 14 Nr. water content;
- 1 Nr. hand shear vane;
- 30 Nr. point load strength of rock;
- 1 Nr. uniaxial compressive strength of rock including determination of Young's Modulus and Poisson's Ratio; and
- 23 Nr. Building Research Establishment (BRE) Special Digest (SD)⁵ Suite – including 2:1 water soluble sulphate, 2:1 water soluble chloride, 2:1 water soluble nitrate, water soluble magnesium and pH.

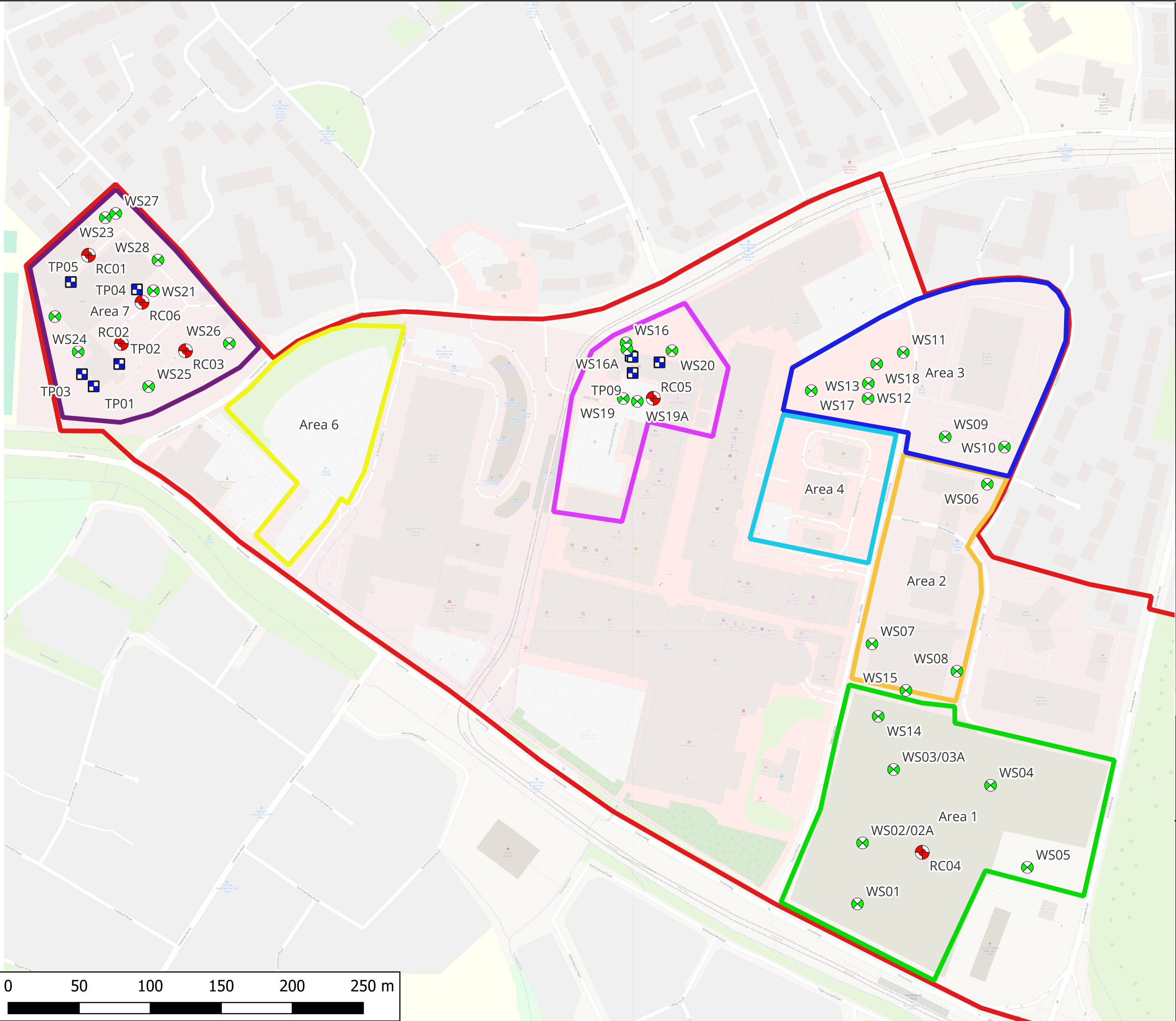
The restriction report is included in [Appendix F](#).

⁴ British Standard (2018). Methods of testing for soils for civil engineering purposes. BS 1377:2018.

⁵ Building Research Establishment (2006). BRE Special Digest Part 1: Concrete in aggressive ground

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Appendix A – Exploratory Hole Location Plan



KEY

Final Surveyed Exploratory Locations

- Rotary Cored Borehole
- Trial Pit / Foundation Inspection Pit
- Window Sample Borehole

Boundaries

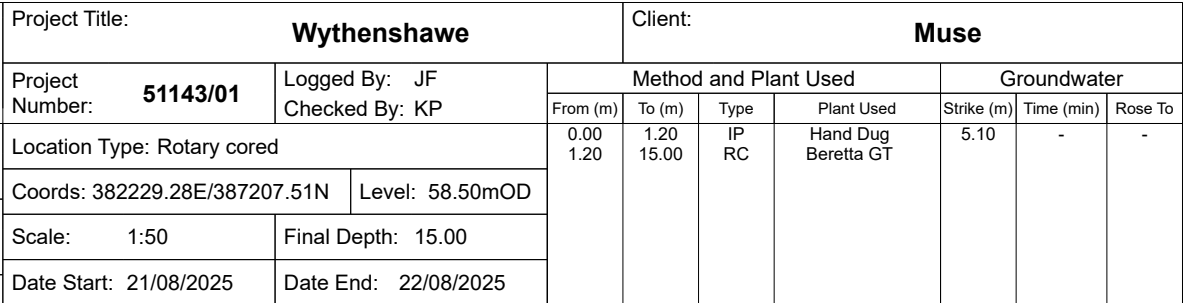
- Boundary - Area 7 (3.3)
- Boundary - Area 6 (3.1,3.2)
- Boundary - Area 5 (C2)
- Boundary - Area 4 (C1)
- Boundary - Area 3 (2.2, 2.3, 2.4)
- Boundary - Area 2 (1.4, 2.1)
- Boundary - Area 1 (1.1, 1.2, 1.3)
- Boundary - Masterplan

C01	October 2025	First Issue
Rev	Date	Comments
CIVIC Civic Earth 35 Virginia Street Glasgow G1 1TN T: 01413701829		
Project Wythenshaw		
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Rev. C01

Appendix B – Exploratory Hole Records

CIVIC EARTH		Project Title: Wythenshawe		Client: Muse													
		Project Number: 51143/01	Logged By: JF Checked By: KP	Method and Plant Used		Groundwater											
Location ID: RC01		Location Type: Rotary cored		0.00 1.20	1.20 15.00	IP RC	Hand Dug Beretta GT	5.10	-	-							
		Coords: 382229.28E/387207.51N		Level: 58.50mOD													
Status: FINAL		Scale: 1:50		Final Depth: 15.00													
		Date Start: 21/08/2025		Date End: 22/08/2025													
Sheet 1 of 2																	
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max			
		Sample Depth (m)	Type/Ref	Tests/Results						Core Run	TCR (%)	SCR (%)	RQD (%)				
	0.00 0.40	0.40	B 1 ES 1			58.30	0.20		Tarmacadam hardstanding. [MADE GROUND]								
						58.25	0.25		Light grey slightly silty sandy gravel. Gravel is angular to subangular fine to coarse of limestone. Sand is fine to coarse.								
	1.00	1.20 - 1.65	D 1	SPT(S) 1.20m N=22 (4,3/4,5,5,8)		57.90	0.60		[MADE GROUND] Black to red slightly silty sandy gravel. Gravel is angular to subangular fine to coarse of brick, tile, mudstone and limestone. Sand is fine to coarse.								
									[MADE GROUND] Firm orangish brown mottled grey slightly sandy gravelly CLAY. Gravel is angular fine to coarse of mudstone lithorelics. Sand is fine to coarse.								
	2.00	1.50 - 3.00 1.60 1.60	C 1 B 2 ES 2			57.00	1.50		[MADE GROUND] Firm orangish brown mottled grey slightly sandy gravelly CLAY. Gravel is angular fine to coarse of mudstone lithorelics. Sand is fine to coarse.	1.50 3.00	97	43	0	- - -			
						56.95	1.55		[GLACIAL TILL] No recovery.								
	3.00	3.00 - 3.45 3.00 - 4.50	D 2 C 2	SPT(C) 3.00m 50 (25 for 10mm/50 for 13mm)		55.50	3.00		Firm orangish brown mottled grey slightly sandy gravelly CLAY. Gravel is angular fine to coarse of mudstone lithorelics. Sand is fine to coarse.								
						55.35	3.15		[GLACIAL TILL] No recovery.								
	4.00	4.50 - 4.95 4.50 - 6.00	D 3 C 3	SPT(C) 4.50m 50 (25 for 6mm/50 for 10mm)		55.10	3.40		Extremely weak light grey thinly bedded SILTSTONE. [BOLLIN MUDSTONE MEMBER]	3.00 4.50	27	17	0	- - -			
						55.05	3.45		MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER] No recovery.								
	5.00	6.00 - 7.50	C 4			54.10	4.40		MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER] No recovery.	4.50 6.00							
						54.00	4.50										
	6.00	7.50 - 9.00	C 5			51.60	6.90		MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER] Extremely weak thinly laminated brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough planar clean.	6.00 7.50	40	17	0	5 20 80			
						51.40	7.10		[BOLLIN MUDSTONE MEMBER] MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]								
	7.00	9.00 - 10.50	C 6			51.10	7.40		Extremely weak thinly laminated brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough planar clean; 2) 80 degrees closely spaced rough planar clean.	7.50 9.00	87	70	41	5 135 400			
						50.75	7.75		[BOLLIN MUDSTONE MEMBER] Extremely weak to weak thinly to medium bedded MUDSTONE. Discontinuities: 1) 5 degrees close to wide spaced rough planar with orangish brown clay infill.								
	8.00					50.35	8.15		[BOLLIN MUDSTONE MEMBER] No recovery.	9.00 10.50	100	100	7	5 39 100			
						49.70	8.80		Extremely weak to weak thinly to medium bedded MUDSTONE. Discontinuities: 1) 5 degrees close to wide spaced rough planar with orangish brown clay infill.								
49.50	9.00		[BOLLIN MUDSTONE MEMBER]														
49.00	9.50		Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled reddish brown and grey MUDSTONE. Discontinuities: 1) 5 degrees close spaced rough undulating mostly clean with rare clay infill; 2) 80 to 85 degrees close to medium spaced stepped rough clean.														
			[BOLLIN MUDSTONE MEMBER]														
Stratum continues onto next page																	
Notes: 1. Groundwater strike encountered at 5.10mbgl. 2. ES = Environmental Sample; D = Disturbed Sample; B = Bulk Sample; C = Core Sample. 3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.						Hole Diameter		Casing		Hammer Information							
						Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio		Serial No.					
										65%		BBL4					
						Install Response Zones											
						Ref	From (m)	To (m)									
Pipe1	3.00	15.00															



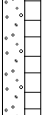
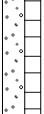
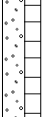
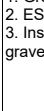
CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
Location ID: RC02		Location Type: Rotary cored				0.00	1.20	IP	Hand Dug	12.00	-	-		
		Coords: 382252.47E/387145.44N		Level: 58.92mOD		1.20	3.00	WS	Window Sample					
Status: FINAL						3.00	15.00	RC	Rig Beretta GT					
		Scale: 1:50		Final Depth: 15.00										
Sheet 1 of 3		Date Start: 19/08/2025				Date End: 20/08/2025								
Inst/ Backfill	Depth (m)	Samples & Tests		Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring			Fract (mm) min avg max		
		Sample Depth (m)	Type/Ref						Tests/Results	Core Run	TCR (%)		SCR (%)	ROD (%)
		0.30	ES 1			58.77	0.15		Tarmacadam hardstanding. [MADE GROUND]					
						58.47	0.45		Blackish brown slightly sandy clayey gravel. Gravel is angular to subangular fine to coarse of mudstone and bituminous material. [MADE GROUND]					
		1.20 - 2.00	D 1	SPT(S) 1.20m N=10 (2,2/2,2,2,4) HSV 1.40m (p)= 51 kPa		58.32	0.60		Soft to firm reddish brown gravelly clay. Gravel is subangular to subrounded fine to coarse of mudstone and brick. [MADE GROUND]					
									Firm reddish brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone. [GLACIAL TILL]					
		2.00 - 3.00	D 2	SPT(S) 2.00m N=30 (1,8/7,8,7,8) HSV 1.85m (p)= 60 kPa HSV 2.10m (p)= 56 kPa		57.22	1.70		Firm to stiff red gravelly CLAY. Gravel is subangular to rounded fine to coarse of coal and mudstone. [GLACIAL TILL]					
									MUDSTONE recovered as brown slightly silty gravel. Gravel is angular fine to coarse of mudstone lithorelics. [WEATHERED BOLLIN MUDSTONE MEMBER]					
		3.00 - 4.50	C 1	SPT(S) 3.00m N=28 (1,2/3,8,9,8)		55.92	3.00		Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean; 2) 80 degrees close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]	3.00 4.50	100	83	23	5 38 120
						55.62	3.30		MUDSTONE recovered as brown slightly silty gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
		4.50 - 6.00	C 2						SILTSTONE recovered as light grey slightly silty gravel. Gravel is angular fine to coarse of siltstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
						54.62	4.30		Extremely weak thinly laminated greenish grey SILTSTONE. [BOLLIN MUDSTONE MEMBER]					
		6.00 - 7.50	C 3			53.12	5.80	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean; 2) 80 degrees close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]					
						53.02	5.90	×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
		7.50 - 9.00	C 4			52.97	5.95	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean; 2) 80 degrees close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]	6.00 7.50	100	0	9	5 35 140
						52.92	6.00	×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
		9.00 - 10.50	C 5			52.82	6.10	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean; 2) 80 degrees close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]					
						52.52	6.40	×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
						52.47	6.45	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean; 2) 80 degrees close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]	7.50 9.00	100	80	7	5 44 100
								×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
						51.37	7.55	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean; 2) 80 degrees close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]					
						51.17	7.75	×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
						50.62	8.30	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]	9.00 10.50	100	80	56	5 114 310
						50.57	8.35	×	MUDSTONE recovered as orangish brown clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
						50.32	8.60	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]					
						50.22	8.70	×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
						49.92	9.00	×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]					
						49.82	9.10	×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
								×	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]					
								×	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
Stratum continues onto next page														
Notes: 1. Groundwater strike encountered at 12.00mbgl. 2. ES = Environmental Sample; D = Disturbed Sample; B = Bulk Sample; C = Core Sample. 3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.								Hole Diameter		Casing		Hammer Information		
								Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.	
												60%	BBL7	
								Install Response Zones						
								Ref	From (m)	To (m)				
Pipe1	3.00	15.00												

CIVIC EARTH		Project Title: Wythenshawe		Client: Muse									
		Project Number: 51143/01	Logged By: JF Checked By: KP	Method and Plant Used		Groundwater							
Location ID: RC02		Location Type: Rotary cored		0.00 1.20	1.20 3.00	IP WS	Hand Dug Window Sample Rig Beretta GT	12.00	-	-			
		Coords: 382252.47E/387145.44N		Level: 58.92mOD		3.00	15.00	RC					
Status: FINAL		Scale: 1:50		Final Depth: 15.00									
		Date Start: 19/08/2025		Date End: 20/08/2025									
Sheet 2 of 3													
Inst/ Backfill	Depth (m)	Samples & Tests		Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max
		Sample Depth (m)	Type/Ref						Tests/Results	Core Run	TCR (%)	SCR (%)	
	10.50 - 12.00	C 6			48.32	10.60	XXXXXX	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	11.0				48.12	10.80	XXXXXX	Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth with clayey gravel infill; 2) 80 degrees close spaced stepped rough with clayey gravel infill. [BOLLIN MUDSTONE MEMBER]	10.50 12.00	100	95	65	5 155 480
	12.0	12.00 - 13.50	C 7		46.92	12.00	XXXXXX	MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	12.0				46.82	12.10	XXXXXX	Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey SILTSTONE. Discontinuities: 1) 5 to 20 degrees extremely close to medium close spaced stepped rough with clayey gravel infill. Gravel is angular fine to medium of mudstone; 2) 80 degrees medium close spaced undulating rough clean. [BOLLIN MUDSTONE MEMBER]	12.00 13.50	93	73	28	10 57 130
	13.0				46.72	12.20	XXXXXX	MUDSTONE recovered as orangish brown clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	13.0				46.67	12.25	XXXXXX	Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough smooth clean; 2) 80 degrees medium close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]					
	13.50 - 15.00	C 8			46.57	12.35	XXXXXX	MUDSTONE recovered as orangish brown clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	14.0				45.77	13.15	XXXXXX	Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough smooth clean; 2) 80 degrees medium close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]	13.50 15.00	100	49	15	5 41 110
	14.0				45.72	13.20	XXXXXX	No recovery. MUDSTONE recovered as orangish brown gravelly cobbles. Cobbles are angular of mudstone. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	14.0				44.62	14.30	XXXXXX	Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough smooth clean; 2) 80 degrees medium close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]					
	14.0				44.57	14.35	XXXXXX	MUDSTONE recovered as orangish brown clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	14.0				44.47	14.45	XXXXXX	Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough undulating clean. [BOLLIN MUDSTONE MEMBER]					
	14.0				44.42	14.50	XXXXXX	No recovery. Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough undulating clean. [BOLLIN MUDSTONE MEMBER]					
	15.0				43.92	15.00	XXXXXX	Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough undulating clean. [BOLLIN MUDSTONE MEMBER]					
	16.0						XXXXXX	MUDSTONE recovered as orangish brown clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	16.0						XXXXXX	Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough undulating clean. [BOLLIN MUDSTONE MEMBER]					
	17.0						XXXXXX	No recovery. Extremely weak to weak thinly laminated orangish brown to dark grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to medium close spaced rough undulating clean. [BOLLIN MUDSTONE MEMBER]					
	17.0						XXXXXX	MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
	18.0						XXXXXX	Extremely weak to weak thinly laminated to thinly bedded reddish brown to drak grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth with brown clay infill; 2) 75 degrees close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]					
	18.0						XXXXXX	MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]					
19.0						XXXXXX	Extremely weak to weak thinly laminated to thinly bedded reddish brown to drak grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth with brown clay infill; 2) 75 degrees close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]						
19.0						XXXXXX	MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]						
20.0						XXXXXX	Extremely weak to weak thinly laminated to thinly bedded reddish brown to drak grey MUDSTONE. Discontinuities: 1) 5 degrees						
Stratum continues onto next page													
Notes: 1. Groundwater strike encountered at 12.00mbgl. 2. ES = Environmental Sample; D = Disturbed Sample; B = Bulk Sample; C = Core Sample. 3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.								Hole Diameter		Casing		Hammer Information	
								Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
												60%	BBL7
								Install Response Zones					
								Ref	From (m)	To (m)			

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
Location ID: RC02		Location Type: Rotary cored				From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To		
		Coords: 382252.47E/387145.44N		Level: 58.92mOD		0.00 1.20	1.20 3.00	IP WS	Hand Dug Window Sample Rig Beretta GT	12.00	-	-		
Status: FINAL		Scale: 1:50		Final Depth: 15.00		3.00	15.00	RC						
		Date Start: 19/08/2025		Date End: 20/08/2025										
Sheet 3 of 3														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max.
		Sample Depth (m)	Type/Ref	Tests/Results						Core Run	TCR (%)	SCR (%)	ROD (%)	
									Extremely weak to weak thinly laminated to thinly bedded reddish brown to drak grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough smooth with brown clay infill; 2) 75 degrees close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER] EOH at 15.00m - Achieved target depth					
	21.0													
	22.0													
	23.0													
	24.0													
	25.0													
	26.0													
	27.0													
	28.0													
	29.0													
	30.0													
Notes:									Hole Diameter		Casing		Hammer Information	
1. Groundwater strike encountered at 12.00mbgl. 2. ES = Environmental Sample; D = Disturbed Sample; B = Bulk Sample; C = Core Sample. 3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													60%	BBL7
									Install Response Zones					
									Ref	From (m)	To (m)			

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used		Groundwater						
Location ID: RC03		Location Type: Rotary cored				0.00	1.20	IP	Hand Dug Beretta GT	12.00	-	-		
		Coords: 382297.58E/387140.25N		Level: 59.71mOD		1.20	15.00							
Status: FINAL		Scale: 1:50		Final Depth: 15.00										
Sheet 1 of 2		Date Start: 18/08/2025		Date End: 19/08/2025										
Inst/ Backfill	Depth (m)	Samples & Tests		Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring			Fract (mm) min avg max		
		Sample Depth (m)	Type/Ref						Tests/Results	Core Run	TCR (%)		SCR (%)	RQD (%)
	0.50	ES 1			59.51	0.20		Tarmacadam hardstanding. [MADE GROUND]						
					59.11	0.60		Light brown to light grey sandy gravel. Gravel is angular to subangular fine to coarse of limestone. Sand is fine to coarse. Rare angular to subangular cobbles of limestone and tarmac.						
	1.0				58.91	0.80		[MADE GROUND] Grey concrete.						
								[MADE GROUND] Soft to firm dark reddish brown mottled grey slightly sandy slightly silty CLAY. Sand is fine to coarse. Rare angular to subangular fine to medium gravel of mudstone lithorelics.						
	2.0							[GLACIAL TILL]	1.50 3.00	80	77	0		
					56.71	3.00		No recovery. Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey interbedded SILTSTONE and MUDSTONE. Discontinuities: 1) 5 to 10 degrees extremely close to medium spaced stepped rough clean; 2) 80 degrees extremely close to medium spaced stepped rough clean.						
	3.0				56.11	3.60		[BOLLIN MUDSTONE MEMBER]	3.00 4.50	60	45	23		
								No recovery. MUDSTONE recovered as slightly sandy gravel. Gravel is angular fine to coarse of mudstone lithorelics. Sand is fine to coarse.						
	4.0				55.21	4.50		[BOLLIN MUDSTONE MEMBER]	4.50 6.00	80	69	21	20 76 110	
					54.91	4.80		Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled greenish grey MUDSTONE. Discontinuities: 1) 5 degrees very close to close spaced rough smooth clean.						
	5.0	4.50 - 6.00	C 1		54.71	5.00		[BOLLIN MUDSTONE MEMBER]	6.00 7.50	100	100	25	5 68 220	
					54.16	5.55		Extremely weak to weak thinly laminated greenish grey SILTSTONE. Discontinuities: 1) 5 degrees closely spaced undulating rough clean; 2) 80 degrees closely spaced stepped rough clean.						
	6.0	6.00 - 7.50	C 2		53.91	5.80		[BOLLIN MUDSTONE MEMBER]	7.50 9.00	93	80	43	5 60 170	
					53.71	6.00		SILTSTONE recovered as slightly clayey silty gravel. Gravel is angular fine to coarse of siltstone lithorelics.						
	7.0				52.46	7.25		[BOLLIN MUDSTONE MEMBER]	9.00 10.50	40	21	7	20 54 100	
					52.21	7.50		Extremely weak to weak thinly laminated greenish grey SILTSTONE. Discontinuities: 1) 5 degrees close spaced rough smooth clean.						
	8.0	7.50 - 9.00	C 3		52.11	7.60		[BOLLIN MUDSTONE MEMBER]						
								Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees very close to close spaced rough smooth clean.						
	9.0				51.41	8.30		[BOLLIN MUDSTONE MEMBER]						
					51.01	8.70		MUDSTONE recovered as brown slightly clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics.						
	9.0	9.00 - 10.50	C 4		50.91	8.80		[BOLLIN MUDSTONE MEMBER]						
					50.71	9.00		Extremely weak to weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees very close to close spaced rough smooth clean.						
	10.0							No recovery.						
					49.81	9.90		MUDSTONE recovered as brown silty clayey gravel. Gravel is angular to subangular fine to coarse of mudstone lithorelics.						
								[BOLLIN MUDSTONE MEMBER]						
								[BOLLIN MUDSTONE MEMBER]						
Stratum continues onto next page														
Notes: 1. Groundwater strike encountered at 12.00mbgl. 2. ES = Environmental Sample; C = Core Sample. 3. Installation Details: 0.00m to 2.00m plain 63mm diameter pipe with bentonite; 2.00m to 14.00m slotted 63mm diameter pipe with gravel filter and geosock; 14.00m to 15.00m backfilled with bentonite. Gas tap, bung and flush cover. 4. Strength / Density based on site Engineer's observations only.								Hole Diameter		Casing		Hammer Information		
								Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio		Serial No.
												%		
												Install Response Zones		
												Ref	From (m)	To (m)
								Pipe1		2.00		14.00		

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse									
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater						
Location ID: RC03		Location Type: Rotary cored				0.00	1.20	IP RC	Hand Dug Beretta GT	12.00	-	-			
		Coords: 382297.58E/387140.25N		Level: 59.71mOD		1.20	15.00								
Status: FINAL		Scale: 1:50		Final Depth: 15.00											
		Date Start: 18/08/2025		Date End: 19/08/2025											
Sheet 2 of 2															
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max	
		Sample Depth (m)	Type/Ref	Tests/Results						Core Run	TCR (%)	SCR (%)	RQD (%)		
	10.50 - 12.00	C 5				49.51	10.20		MUDSTONE recovered as brown silty clayey gravel. Gravel is angular to subangular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]						
						49.21	10.50								
	49.01	10.70		No recovery.											
	48.66	11.05				Extremely weak to weak thinly laminated to thinly bedded greenish grey to light grey SILTSTONE. Discontinuities: 1) 5 degrees very close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]									
	48.56	11.15													
	48.46	11.25													
	48.36	11.35													
	48.16	11.55													
	48.11	11.60													
	12.00 - 13.50	C 6							47.71	12.00		SILTSTONE recovered as brown clayey gravel. Gravel is angular fine to coarse of siltstone lithorelics. [BOLLIN MUDSTONE MEMBER]	10.50 12.00	10	87
			47.51	12.20						Extremely weak to weak thinly laminated to thinly bedded greenish grey to light grey SILTSTONE. Discontinuities: 1) 5 degrees very close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]					
	13.00 - 13.50						47.01	12.70				SILTSTONE recovered as brown clayey gravel. Gravel is angular fine to coarse of siltstone lithorelics. [BOLLIN MUDSTONE MEMBER]	12.00 13.50	80	77
							46.31	13.40		Extremely weak to weak thinly laminated to thinly bedded greenish grey to light grey SILTSTONE. Discontinuities: 1) 5 degrees very close spaced rough smooth clean; 2) 80 degrees very close to close spaced stepped rough clean. [BOLLIN MUDSTONE MEMBER]					
	14.00 - 15.00	C 7												SILTSTONE recovered as brown slightly silty gravel. Gravel is angular fine to coarse of siltstone lithorelics. [BOLLIN MUDSTONE MEMBER]	13.50 15.00
							44.71	15.00		Extremely weak to weak thinly laminated to thinly bedded greenish grey to light grey SILTSTONE. Discontinuities: 1) 5 degrees very close spaced rough smooth clean. [BOLLIN MUDSTONE MEMBER]					

CIVIC EARTH		Project Title: Wythenshawe		Client: Muse																							
		Project Number: 51143/01	Logged By: JF Checked By: KP	Method and Plant Used		Groundwater																					
Location ID: RC05		Location Type: Rotary cored		0.00 1.20	1.20 15.00	IP RC	Hand Dug Beretta GT	5.00	-	-																	
		Coords: 382626.92E/387106.82N		Level: 59.87mOD																							
Status: FINAL		Scale: 1:50		Final Depth: 15.00																							
		Date Start: 26/08/2025		Date End: 26/08/2025																							
Sheet 1 of 2																											
Inst/ Backfill	Depth (m)	Samples & Tests		Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max														
		Sample Depth (m)	Type/Ref						Tests/Results	Core Run	TCR (%)	SCR (%)		RQD (%)													
	0.00 - 1.00	0.40	B 1	SPT(S) 1.20m N=23 (4,4/5,6,6)		59.67	0.20		Tarmacadam hardstanding. [MADE GROUND]																		
		0.80 0.80	B 2 ES 1			59.07	0.80		Grey mottled dark grey gravelly sand. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of limestone and concrete. [MADE GROUND]																		
	1.00 - 1.50	1.20 - 1.65	D 1			58.37	1.50		Dark grey to black mottled red and brown slightly gravelly sandy silt. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of brick, concrete, limestone and coal. [MADE GROUND]																		
		1.50 - 3.00	C 1						from 0.80 to 1.50mbgl - Occasional pockets of soft reddish brown mottled black clay noted.																		
	2.00 - 3.00					57.27	2.60		Firm to stiff dark orangish brown mottled grey slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone, coal and quartz. Sand is fine to coarse. [GLACIAL TILL]	1.50 3.00	100	100	0	- - -													
									Firm to stiff orangish brown gravelly CLAY. Gravel is subangular to angular fine to coarse of mudstone lithorelics. Rare angular cobbles of mudstone. [GLACIAL TILL]																		
	3.00 - 4.50		C 2			56.67	3.20		Extremely weak thinly laminated to thinly bedded orangish brown micaceous MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough planar clean; 2) 8 degrees medium to close spaced rough planar clean. [WEATHERED BOLLIN MUDSTONE MEMBER]	3.00 4.50	93	87	11	10 61 360													
	4.00 - 5.00					55.57 55.47 55.37	4.30 4.40 4.50		MUDSTONE recovered as orangish brown gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]																		
	4.50 - 6.00		C 3			55.07	4.80		No recovery. MUDSTONE recovered as orangish brown slightly clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]	4.50 6.00	83	57	0	10 37 140													
	5.00 - 6.00					54.42 54.32 54.12	5.45 5.55 5.75		Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
	6.00 - 7.50		C 4			53.87 53.77	6.00 6.10		MUDSTONE recovered as orangish brown slightly clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]	6.00 7.50	83	73	18	5 80 150													
	7.00 - 8.00					53.12 53.07	6.75 6.80		Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
	7.50 - 9.00		C 5			52.62	7.25		No recovery. MUDSTONE recovered as orangish brown slightly clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]	7.50 9.00	80	80	42	20 114 740													
	8.00 - 9.00					52.07	7.80		Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
	9.00 - 10.50		C 6			51.47	8.40		MUDSTONE recovered as orangish brown slightly clayey gravel. Gravel is angular fine to coarse of mudstone lithorelics. [BOLLIN MUDSTONE MEMBER]	9.00 10.50	100	87	28	5 46 250													
	10.00 - 11.00					50.22 50.02	9.65 9.85		Very weak to weak thinly bedded orangish brown MUDSTONE. Discontinuities: 1) 5 degrees close to medium spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									No recovery. Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Very weak to weak thinly bedded orangish brown MUDSTONE. Discontinuities: 1) 5 degrees close to medium spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Very weak to weak thinly bedded orangish brown MUDSTONE. Discontinuities: 1) 5 degrees close to medium spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Very weak to weak thinly bedded orangish brown MUDSTONE. Discontinuities: 1) 5 degrees close to medium spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Very weak to weak thinly bedded orangish brown MUDSTONE. Discontinuities: 1) 5 degrees close to medium spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Extremely weak to weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremeley close to close spaced rough planar clean; 2) 65 to 80 degrees very close to close rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
									Very weak to weak thinly bedded orangish brown MUDSTONE. Discontinuities: 1) 5 degrees close to medium spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]																		
Stratum continues onto next page																											
Notes: 1. Groundwater strike encountered at 5.00mbgl. 2. ES = Environmental Sample; D = Disturbed Sample; B = Bulk Sample; C = Core Sample. 3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.						Hole Diameter		Casing							Hammer Information												
						Depth (m)	Dia (mm)	Depth (m)	Dia (mm)				Energy Ratio		Serial No.												
										65%			BBL4														
												Install Response Zones															
												Ref	From (m)	To (m)													
										Pipe1		3.00	15.00														

Project Title: Wythenshawe				Client: Muse						
Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used				Groundwater		
				From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
Location Type: Rotary cored				0.00 1.20	1.20 15.00	IP RC	Hand Dug Beretta GT	5.00	-	-
Coords: 382626.92E/387106.82N		Level: 59.87mOD								
Scale: 1:50		Final Depth: 15.00								
Date Start: 26/08/2025		Date End: 26/08/2025								

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used		Groundwater						
Location ID: RC06		Location Type: Rotary cored				0.00 1.20	1.20 15.00	IP RC	Hand Dug Beretta GT	11.00	-	-		
		Coords: 382266.98E/387174.45N		Level: 58.68mOD										
Status: FINAL		Scale: 1:50		Final Depth: 15.00										
		Date Start: 21/08/2025		Date End: 21/08/2025										
Sheet 1 of 3														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max
		Sample Depth (m)	Type/Ref	Tests/Results						Core Run	TCR (%)	SCR (%)	ROD (%)	
	1.0	1.50 - 3.00	C 1	SPT(S) 1.20m 50 (25 for 95mm/50 for 90mm)		58.48	0.20		Tarmacadam hardstanding. [MADE GROUND]					
						58.38	0.30		Light grey slightly silty sandy gravel. Gravel is angular to subangular fine to coarse of limestone. Sand is fine to coarse. [MADE GROUND]					
	2.0					57.88	0.80		Black to red slightly silty sandy gravel. Gravel is angular to subangular fine to coarse of brick, tile, mudstone and limestone. Sand is fine to coarse. [MADE GROUND]					
						57.18	1.50		Firm orangish brown mottled grey slightly sandy gravelly CLAY. Gravel is angular fine to coarse of mudstone lithorelics. Sand is fine to coarse.					
						57.03	1.65		[GLACIAL TILL] No recovery.	1.50 3.00	90	77	49	5 141 550
						56.48	2.20		Soft to firm orangish brown slightly silty gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone and siltstone lithorelics.					
						56.13	2.55		[GLACIAL TILL]					
						56.03	2.65		Extremely weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close spaced rough undulating clean.					
	3.0	3.00 - 4.50	C 2			55.68	3.00		[WEATHERED BOLLIN MUDSTONE MEMBER]					
						55.58	3.10		MUDSTONE recovered as slightly clayey gravel. Gravel is angular to subangular fine to coarse of mudstone lithorelics. [WEATHERED BOLLIN MUDSTONE MEMBER]					
									Extremely weak thinly laminated orangish brown MUDSTONE. Discontinuities: 1) 5 degrees extremely close spaced rough undulating clean; 2) 80 degrees medium spaced stepped rough clean.	3.00 4.50	93	93	34	5 30 220
									[BOLLIN MUDSTONE MEMBER] No recovery.					
						54.18	4.50		Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough undulating clean; 2) 80 to 85 degrees very close to medium spaced stepped rough clean.					
						54.03	4.65		[BOLLIN MUDSTONE MEMBER]					
						53.78	4.90		MUDSTONE recovered as orangish brown slightly silty gravel. Gravel is angular fine to coarse of mudstone lithorelics.	4.50 6.00	90	63	23	5 46 130
						53.73	4.95		[BOLLIN MUDSTONE MEMBER]					
						53.08	5.60		Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough undulating clean.					
						52.83	5.85		[BOLLIN MUDSTONE MEMBER]					
						52.68	6.00		MUDSTONE recovered as orangish brown slightly silty gravel. Gravel is angular fine to coarse of mudstone lithorelics.					
						52.58	6.10		[BOLLIN MUDSTONE MEMBER]					
						52.28	6.40		Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough undulating clean; 2) 80 to 85 degrees very close to medium spaced stepped rough clean.	6.00 7.50	60	53	7	5 37 100
						51.78	6.90		[BOLLIN MUDSTONE MEMBER]					
						51.28	7.40		MUDSTONE recovered as orangish brown slightly silty gravel. Gravel is angular fine to coarse of mudstone lithorelics.					
						51.18	7.50		[BOLLIN MUDSTONE MEMBER]					
						51.08	7.60		Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough undulating clean; 2) 80 to 85 degrees very close to medium spaced stepped rough clean.	7.50 9.00	200	53	0	5 23 60
						50.88	7.80		[BOLLIN MUDSTONE MEMBER]					
									No recovery.					
									MUDSTONE recovered as orangish brown slightly silty gravel. Gravel is angular fine to coarse of mudstone lithorelics.					
						50.38	8.30		[BOLLIN MUDSTONE MEMBER]					
									Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough undulating clean; 2) 80 to 85 degrees very close to medium spaced stepped rough clean.					
						49.83	8.85		[BOLLIN MUDSTONE MEMBER]					
						49.68	9.00		No recovery.					
						49.58	9.10		Extremely weak to very weak thinly laminated to thinly bedded orangish brown mottled grey MUDSTONE. Discontinuities: 1) 5 degrees extremely close to medium spaced rough undulating clean;	9.00 10.50	100	93	38	5 43 180

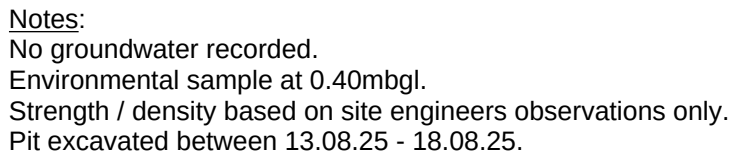
Stratum continues onto next page

Notes:
1. Groundwater strike encountered at 11.00mbgl.
2. C = Core Sample.
3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.

Hole Diameter		Casing		Hammer Information	
Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
				65%	BBL4
Install Response Zones					
Ref	From (m)	To (m)			
Pipe1	3.00	15.00			

Project Title: Wythenshawe				Client: Muse						
Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used				Groundwater		
				From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
Location Type: Rotary cored				0.00 1.20	1.20 15.00	IP RC	Hand Dug Beretta GT	11.00	-	-
Coords: 382266.98E/387174.45N		Level: 58.68mOD								
Scale: 1:50		Final Depth: 15.00								
Date Start: 21/08/2025		Date End: 21/08/2025								

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
						From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To		
Location ID: RC06		Location Type: Rotary cored				0.00	1.20	IP RC	Hand Dug Beretta GT	11.00	-	-		
		Coords: 382266.98E/387174.45N		Level: 58.68mOD										
Status: FINAL		Scale: 1:50		Final Depth: 15.00										
		Date Start: 21/08/2025		Date End: 21/08/2025										
Sheet 3 of 3														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Rotary Coring				Fract (mm) min avg max
		Sample Depth (m)	Type/Ref	Tests/Results						Core Run	TCR (%)	SCR (%)	ROD (%)	
									Extremely weak to weak thinly laminated to thinly bedded light grey to dark grey mottled orangish brown SILTSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough planar clean. [BOLLIN MUDSTONE MEMBER] No recovery.					
	21.0								Extremely weak to weak thinly laminated to thinly bedded light grey to dark grey mottled orangish brown SILTSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough planar clean. [BOLLIN MUDSTONE MEMBER]					
	22.0								Extremely weak to weak thinly laminated to thinly bedded light greenish grey SILTSTONE. Discontinuities: 1) 5 degrees extremely close to close spaced rough planar clean. [BOLLIN MUDSTONE MEMBER] EOH at 15.00m - Achieved target depth					
	23.0													
	24.0													
	25.0													
	26.0													
	27.0													
	28.0													
	29.0													
	30.0													
Notes:									Hole Diameter		Casing		Hammer Information	
1. Groundwater strike encountered at 11.00mbgl. 2. C = Core Sample. 3. Installation Details: 0.00m to 3.00m plain 63mm diameter pipe with bentonite; 3.00m to 15.00m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													65%	BBL4
									Install Response Zones					
									Ref	From (m)	To (m)			



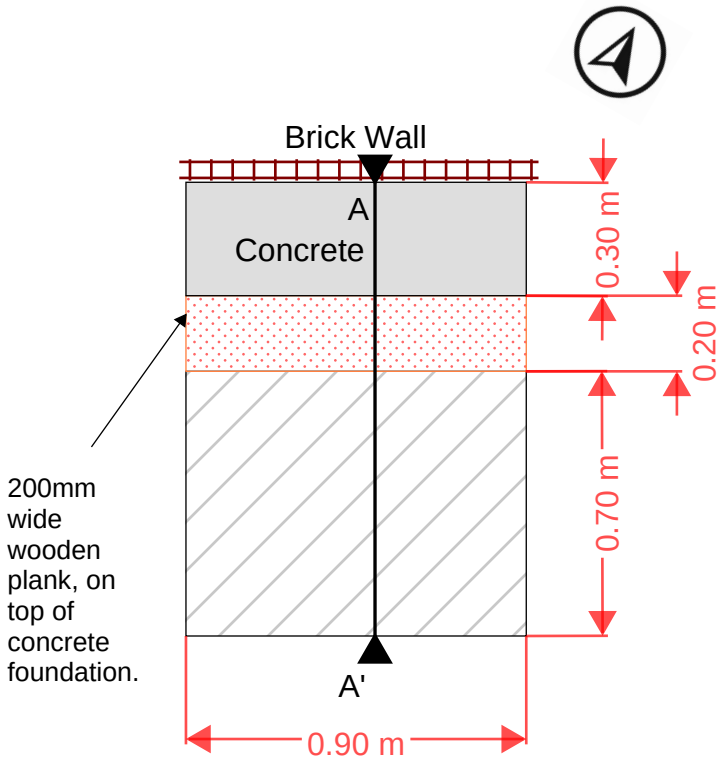
The diagram illustrates a retaining wall cross-section with the following dimensions and features:

- Wall Structure:** A brick wall is shown on the left, with a concrete base extending to the right. The concrete base has a total width of 0.95 m.
- Dimensions:**
 - The total height of the wall is 0.50 m.
 - The concrete base has a thickness of 0.35 m.
 - The height of the concrete base is 0.10 m.
 - The height of the brick wall is 0.35 m.
 - The height of the concrete base is 0.15 m.
- Groundwater Levels:**
 - The groundwater level on the left side is indicated by a dashed line at 0.00 mbgl.
 - The groundwater level on the right side is indicated by a dashed line at 0.50 mbgl.
 - The groundwater level on the right side is also indicated by a dashed line at 2.00 mbgl.
- Labels:**
 - A** and **A'** are labels for the cross-sections.
 - Concrete** and **Brick Wall** are labels for the respective materials.
 - 0.00mbgl**, **0.05mbgl**, **0.10mbgl**, **0.50mbgl**, and **2.00mbgl** are groundwater level indicators.

0.00 to 0.05mbgl:	Concrete hardstanding. [MADE GROUND]
0.05 to 0.10mbgl:	Red sand. Sand is fine to medium. [MADE GROUND]
0.10 to 0.50mbgl:	Pale brown slightly clayey sandy gravel. Gravel is angular to subangular fine to coarse of brick, dolomite, sandstone, coal, metal, rebar, wires, concrete, plastic and rubber. Sand is fine to coarse. [MADE GROUND]
0.50 to 2.00mbgl:	Firm red sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse of mudstone. [GLACIAL TILL]

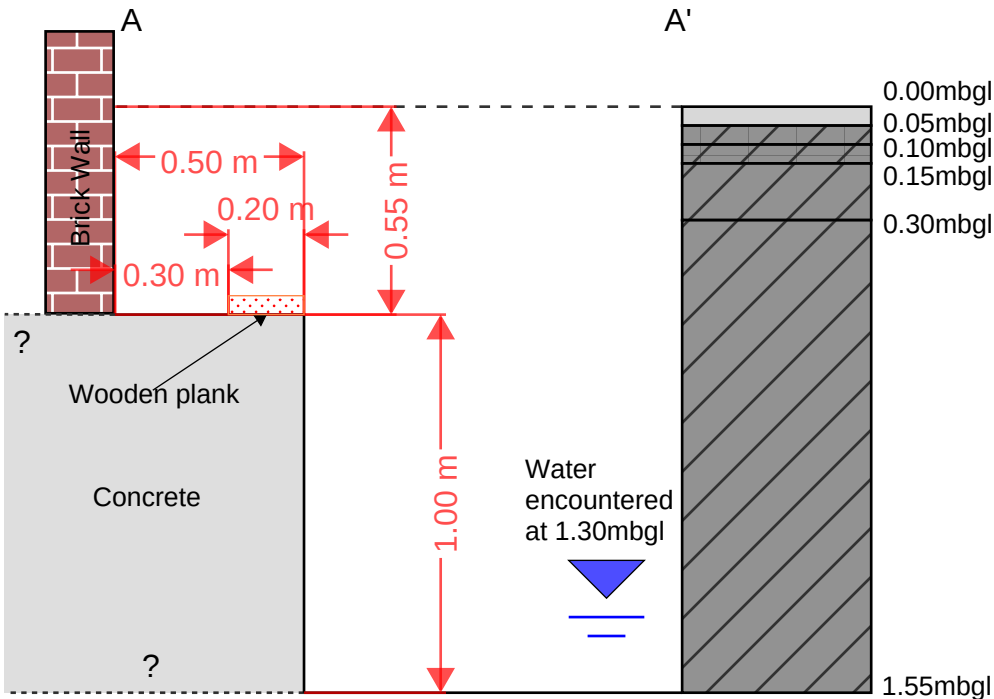
PROJECT NAME Preliminary Site Investigation, Wythenshawe							DRAWING STATUS FOR INFORMATION		SCALE 1 : 20	
TITLE Foundation Inspection Pit - TP01			DRAWING No. 51143-CIV-01-XX-R-G-1002		PROJECT No. 51143/01	DATE CREATED 21/10/25	DRAWN JF	REV P01	CIVIC EARTH	

Plan of Excavation



Notes:
Groundwater encountered at 1.30mbgl.
Environmental samples taken at 0.20mbgl and 0.40mbgl.
Strength / density based on site engineers observations only.
Depth to base of foundation unproven.
Pit excavated between 14.08.2025 - 20.08.2025.

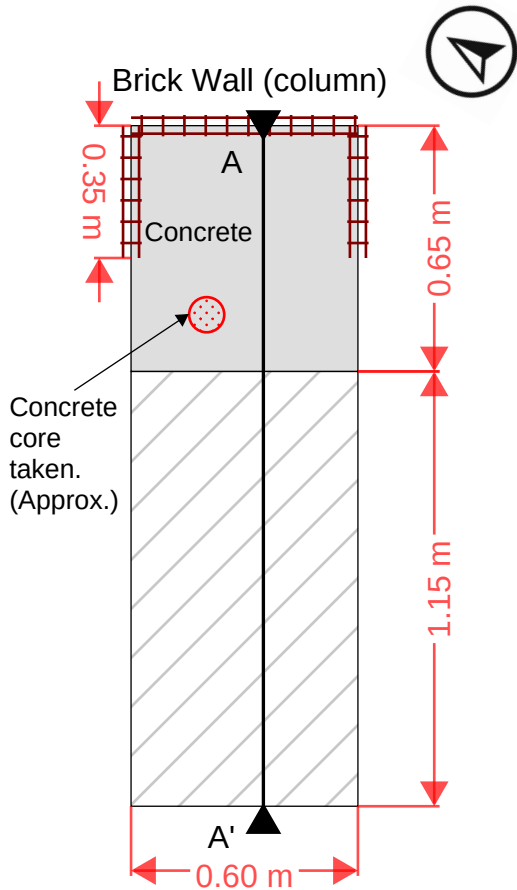
Section of Excavation



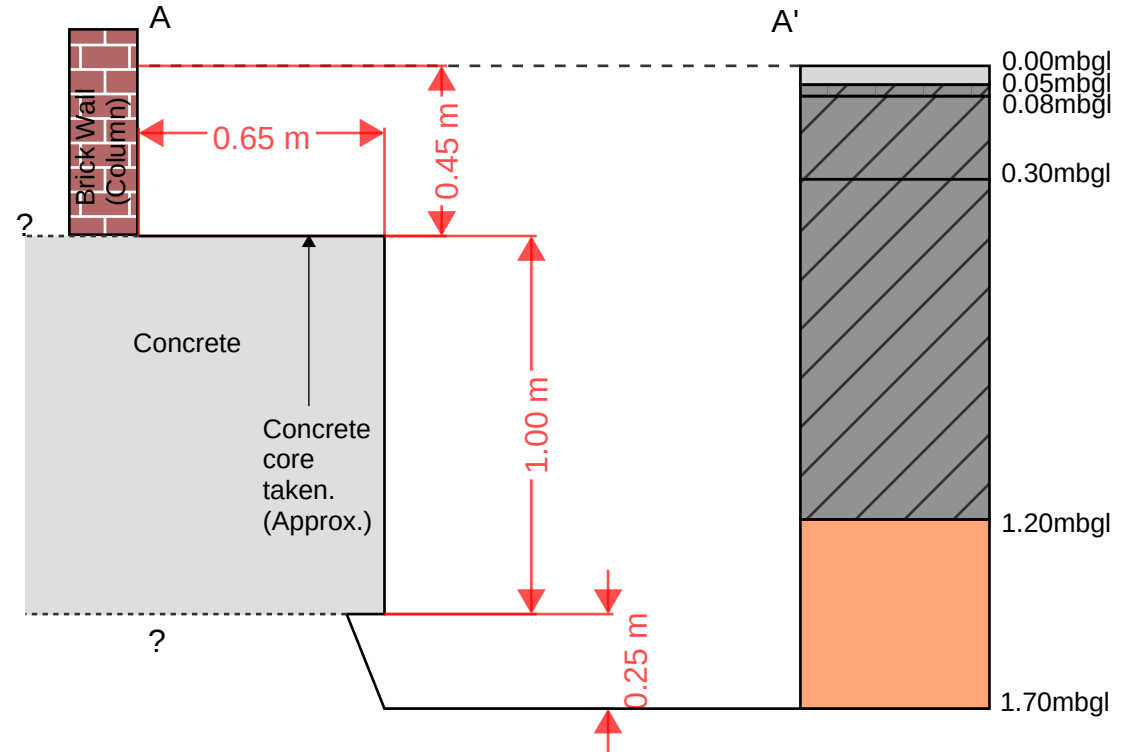
- 0.00 to 0.05mbgl: Concrete hardstanding. [MADE GROUND]
- 0.05 to 0.10mbgl: Red sand. Sand is fine to medium. [MADE GROUND]
- 0.10 to 0.15mbgl: Dark grey sandy gravel. Gravel is angular to subangular fine to coarse of dolomite and mudstone. Sand is fine to medium. Rare metal noted. [MADE GROUND]
- 0.15 to 0.30mbgl: Purple brown gravelly sand. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of dolomite and sandstone. Frequent subrounded to angular cobbles of brick noted. Rare metal and plastic noted. [MADE GROUND]
- 0.30 to 1.55mbgl: Brown gravelly clayey sand. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of brick and dolomite. Frequent subangular to angular cobbles of dolomite noted. [MADE GROUND]

PROJECT NAME Preliminary Site Investigation, Wythenshawe							DRAWING STATUS FOR INFORMATION	SCALE 1 : 20
TITLE Foundation Inspection Pit - TP02	DRAWING No. 51143-CIV-01-XX-R-G-1003	PROJECT No. 51143/01	DATE CREATED 21/10/25	DRAWN JF	REV P01	CIVIC EARTH		

Plan of Excavation



Section of Excavation



Notes:

No groundwater recorded.

Environmental samples taken at 0.20mbgl, 0.30mbgl and 0.70mbgl.

Strength / density based on site engineers observations only.

Drillers comment: No evidence of shuttering having been used during construction within side wall of excavation.

Pit excavated between 13.08.25 - 20.08.25.

0.00 to 0.05mbgl: Concrete hardstanding. [MADE GROUND]

0.05 to 0.08mbgl: Red sand. Sand is fine to medium. [MADE GROUND]

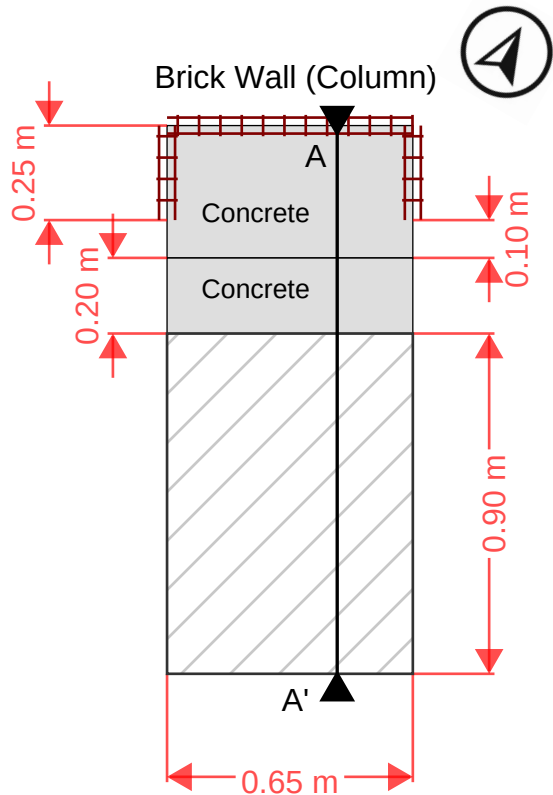
0.08 to 0.30mbgl: Pale brown sandy gravel. Gravel is angular to subangular fine to medium of dolomite. Sand is fine to medium. [MADE GROUND]

0.30 to 1.20mbgl: Purple brown gravelly sand. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of dolomite and sandstone. Occasional angular to subrounded cobbles of sandstone and dolomite noted. Rare ceramic material noted. [MADE GROUND]

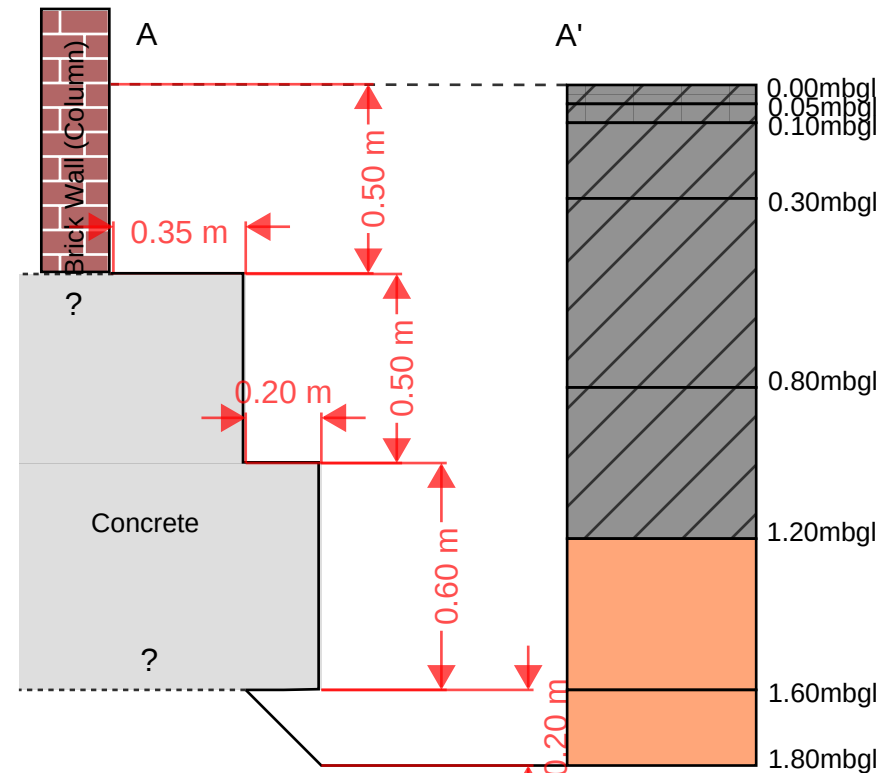
1.20 to 1.70mbgl: Firm red sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse of mudstone. [GLACIAL TILL]

PROJECT NAME Preliminary Site Investigation, Wythenshawe							DRAWING STATUS FOR INFORMATION		SCALE 1 : 20	
TITLE Foundation Inspection Pit - FIP03			DRAWING No. 51143-CIV-01-XX-R-G-1004		PROJECT No. 51143/01	DATE CREATED 21/10/25	DRAWN JF	REV P01	CIVIC EARTH	

Plan of Excavation



Section of Excavation



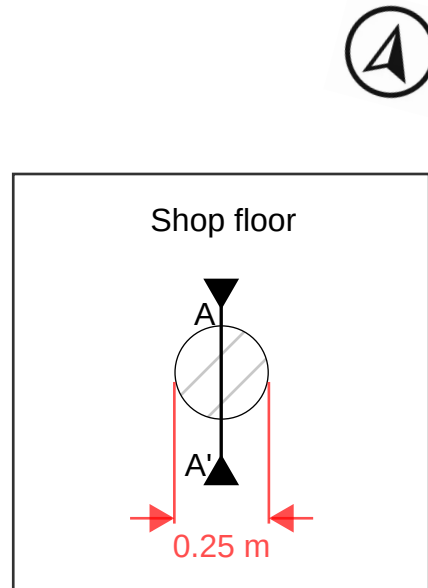
- 0.00 to 0.05mbgl: Concrete hardstanding. [MADE GROUND]
- 0.05 to 0.10mbgl: Red sand. Sand is fine to medium. [MADE GROUND]
- 0.10 to 0.30mbgl: Firm light orange brown mottled light blue grey slightly sandy silty clay. Occasional fragments of subangular to subrounded brick and concrete. [MADE GROUND]
- 0.30 to 0.80mbgl: Brown clayey gravelly sand. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of dolomite, concrete, brick and sandstone. Frequent plastic, metal and wood noted. [MADE GROUND]
- 0.80 to 1.20mbgl: Firm red brown gravelly clay. Gravel is angular to subrounded fine to coarse of dolomite, sandstone, mudstone and brick. [MADE GROUND]
- 1.20 to 1.60mbgl: Firm red sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse of mudstone. [GLACIAL TILL]
- 1.60 to 1.80mbgl: Extremely weak to weak red laminated MUDSTONE. [WEATHERED BOLLIN MUDSTONE MEMBER]

Notes:

No groundwater recorded.
Environmental samples taken at 0.05mbgl, 0.20mbgl and 0.40mbgl.
Strength / density based on site engineers observations only.
Pit excavated between 14.08.25 - 20.08.25.

PROJECT NAME							DRAWING STATUS		SCALE	
Preliminary Site Investigation, Wythenshawe							FOR INFORMATION		1 : 20	
TITLE			DRAWING No.		PROJECT No.	DATE CREATED	DRAWN	REV		
Foundation Inspection Pit - TP04			51143-CIV-01-XX-R-G-1005		51143/01	21/10/25	JF	P01		

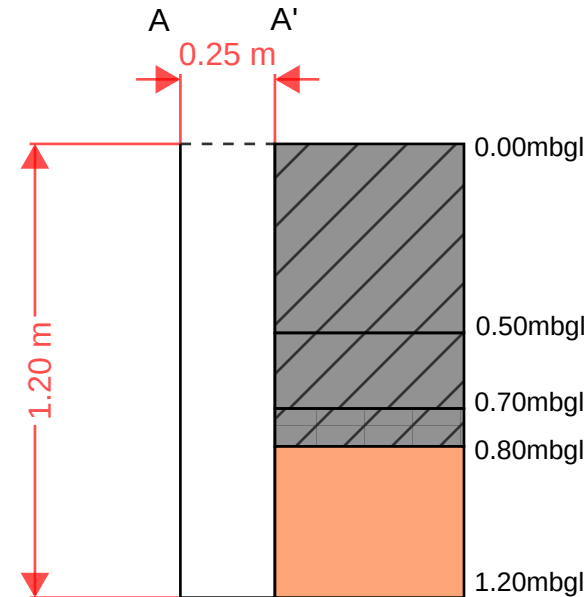
Plan of Excavation



Notes:

No groundwater recorded.
Environmental samples taken at 0.60mbgl and 1.00mbgl.
Strength / density based on site engineers observations only.
Concrete core retained.
Pit excavated 19.08.25.

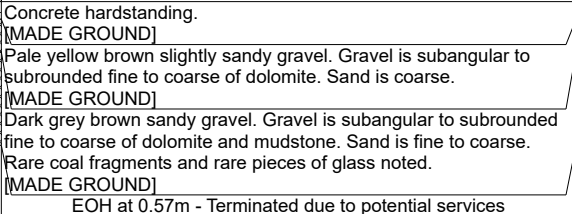
Section of Excavation

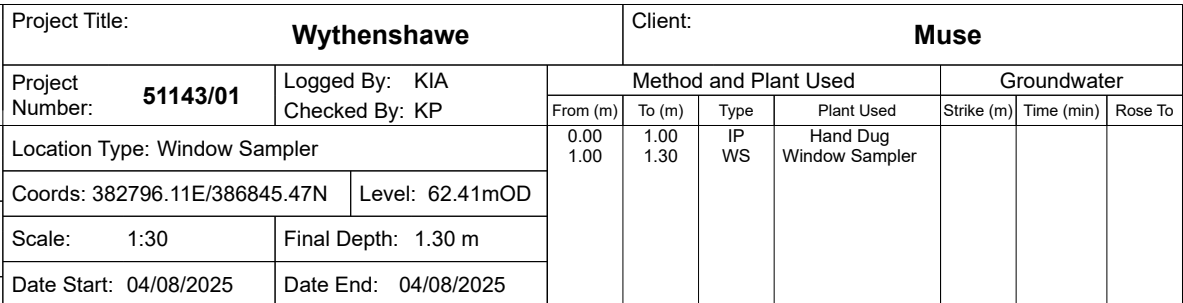


0.00 to 0.50mbgl:	Reinforced concrete hardstanding. [MADE GROUND]
0.50 to 0.70mbgl:	Light brown mottled light grey slightly sandy clayey gravel. Gravel is subangular to angular fine to coarse of limestone. Sand is fine to coarse. [MADE GROUND]
0.70 to 0.80mbgl:	Firm dark grey mottled reddish brown slightly gravelly sandy clay. Sand is fine to coarse. Gravel is subangular to angular fine to coarse of concrete, tarmac and coal. [MADE GROUND]
0.80 to 1.20mbgl:	Firm dark reddish brown mottled grey slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of sandstone, mudstone, coal and igneous lithorelics. [GLACIAL TILL]

PROJECT NAME Preliminary Site Investigation, Wythenshawe							DRAWING STATUS FOR INFORMATION	SCALE 1 : 20
TITLE Foundation Inspection Pit - TP09	DRAWING No. 51143-CIV-01-XX-R-G-1006	PROJECT No. 51143/01	DATE CREATED 21/10/25	DRAWN JF	REV P01	CIVIC EARTH		

CIVICEARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
Location ID: WS02		Location Type: Window Sampler				From (m) 0.00	To (m) 0.15	Type IP	Plant Used Hand Dug	Strike (m)	Time (min)	Rose To		
		Coords: 382774.26E/386793.75N		Level: 62.77mOD										
Status: FINAL		Scale: 1:30		Final Depth: 0.15 m										
		Date Start: 04/08/2025		Date End: 07/08/2025										
Sheet 1 of 1														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
						62.62	0.15		Concrete hardstanding. [MADE GROUND] EOH at 0.15m - Terminated due to weather conditions					
	1.0													
	2.0													
	3.0													
	4.0													
	5.0													
	6.0													
Notes:									Hole Diameter		Casing		Hammer Information	
1. Borehole terminated due to flooding from adverse weather conditions associated with Storm Floris. 2. No groundwater encountered. 3. Location backfilled with arisings and reinstated at the surface with concrete.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													%	
									Install Response Zones					
									Ref	From (m)	To (m)			

CIVICEARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used			Groundwater					
		From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To						
Location ID: WS03		Location Type: Window Sampler				0.00	0.57	IP	Hand Dug					
Status: FINAL		Coords: 382796.11E/386845.47N		Level: 62.41mOD										
		Scale: 1:30		Final Depth: 0.57 m										
Sheet 1 of 1		Date Start: 04/08/2025		Date End: 04/08/2025										
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
					62.34	0.07		Concrete hardstanding. [MADE GROUND]						
	0.25	ES 1		62.21	0.20		Pale yellow brown slightly sandy gravel. Gravel is subangular to subrounded fine to coarse of dolomite. Sand is coarse. [MADE GROUND]							
	0.52	ES 2		61.84	0.57		Dark grey brown sandy gravel. Gravel is subangular to subrounded fine to coarse of dolomite and mudstone. Sand is fine to coarse. Rare coal fragments and rare pieces of glass noted. [MADE GROUND] EOH at 0.57m - Terminated due to potential services							
	1.0													
	2.0													
	3.0													
	4.0													
	5.0													
	6.0													
Notes:									Hole Diameter		Casing		Hammer Information	
1. Borehole terminated due to potential service. 2. No groundwater encountered. 3. ES = Environmental Sample. 4. Location backfilled with arisings and reinstated at the surface with concrete.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													%	
									Install Response Zones					
									Ref	From (m)	To (m)			



CIVIC EARTH		Project Title: Wythenshawe				Client: Muse						
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used		Groundwater				
Location ID: WS04		Location Type: Window Sampler				0.00 1.20	1.20 3.00	IP WS	Hand Dug Window Sampler			
		Coords: 382864.39E/386834.29N		Level: 62.13mOD								
Status: FINAL		Scale: 1:30		Final Depth: 3.00 m								
		Date Start: 04/08/2025		Date End: 04/08/2025								
Sheet 1 of 1												
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling		
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)
						62.05	0.08		Concrete hardstanding. [MADE GROUND]			
	0.30	ES 1				61.93	0.20		Pale grey gravel. Gravel is subangular to subrounded fine to coarse of dolomite. [MADE GROUND]			
	0.60	ES 2				61.73	0.40		Pale brown slightly clayey gravel. Gravel is angular to subangular fine to coarse of dolomite. [MADE GROUND]			
	1.20	D 1	SPT(S) 1.20m N=5 (1,1/1,1,1,2)		60.93	1.20		Soft red brown slightly gravelly clay. Gravel is angular to subangular fine to medium of mudstone, coal and brick. Rare angular to subangular cobbles of brick (Potentially reworked Glacial Till). [MADE GROUND]		1.20 2.00	110	100
	2.00	D 2	SPT(S) 2.00m N=0 (0,0/0,0,0,0)					Soft red brown with orange staining gravelly CLAY. Gravel is fine to coarse subrounded to subangular of mudstone. Occasional mudstone lithorelics and coal fragments noted. [GLACIAL TILL]		2.00 3.00	77	90
	3.00		SPT(S) 3.00m N=50 (6,9/10,10,17,13)		59.18 59.13	2.95 3.00		Red laminated MUDSTONE / SILTSTONE. Mica on laminations. [WEATHERED BOLLIN MUDSTONE MEMBER] EOH at 3.00m - Terminated due to refusal				
	4.00											
	5.00											
	6.00											

Notes:

1. Borehole terminated due to refusal.
2. No groundwater encountered.
3. ES = Environmental Sample; D = Disturbed Sample.
4. Install Details: 0.00m to 0.50m plain 63mm diameter pipe with bentonite seal; 0.50m to 1.00m slotted 63mm diameter pipe with gravel filter and geosock; 1.00m to 3.00m backfilled with bentonite. Gas tap, bung and flush cover.

Hole Diameter

Depth (m)Dia (mm)

2.003.0010187

Casing

Depth (m)Dia (mm)

Hammer Information

Energy RatioSerial No.

60%BBL7

Install Response Zones

RefFrom (m)To (m)

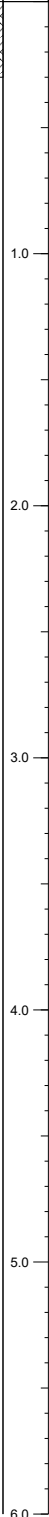
Pipe10.501.00

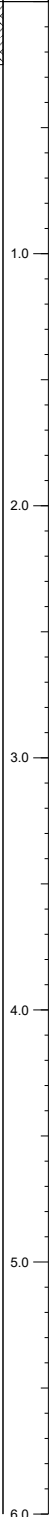
Project Title: Wythenshawe				Client: Muse					
Project Number: 51143/01	Logged By: KIA Checked By: KP		Method and Plant Used				Groundwater		
			From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
	Location Type: Window Sampler		0.00 1.20	1.20 3.00	IP WS	Hand Dug Window Sampler			
	Coords: 382890.28E/386776.51N		Level: 63.10mOD						
	Scale: 1:30		Final Depth: 3.60 m						
Date Start: 19/08/2025		Date End: 19/08/2025							

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse							
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used		Groundwater					
Location ID: WS07		Location Type: Window Sampler				0.00 1.20	1.20 2.60	IP WS	Hand Dug Window Sampler				
		Coords: 382780.89E/386933.86N		Level: 61.51mOD									
Status: FINAL		Scale: 1:30		Final Depth: 2.60 m									
		Date Start: 18/08/2025		Date End: 18/08/2025									
Sheet 1 of 1													
Inst/ Backfill	Depth (m) 0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00 5.10 5.20 5.30 5.40 5.50 5.60 5.70 5.80 5.90 6.00	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling			
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)	
		0.10	ES 1										
		0.60	ES 2										
		1.20	D 1	SPT(S) 1.20m N=12 (1,2/2,3,3,4)									
		2.00	D 2	SPT(S) 2.00m N=31 (4,6/6,8,8,9)						1.20 2.00	110	100	
				SPT(S) 2.60m 50 (25 for 75mm/50 for 75mm)						2.00 2.60	77	100	
		3.0											
		4.0											
		5.0											
Notes: 1. Borehole terminated due to refusal. 2. No groundwater encountered. 3. ES = Environmental Sample; D = Disturbed Sample. 4. Installation Details: 0.00m to 1.00m plain 63mm diameter pipe with bentonite; 1.00m to 2.50m slotted 63mm diameter pipe with gravel filter and geosock; 2.50m to 2.60m backfilled with bentonite. Gas tap, bung and flush cover.						Hole Diameter		Casing		Hammer Information			
						Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.		
										60%	BBL7		
						Install Response Zones							
						Ref Pipe1	From (m) 1.00	To (m) 2.60					

Project Title: Wythenshawe				Client: Muse					
Project Number: 51143/01	Logged By: JF Checked By: KP		Method and Plant Used				Groundwater		
			From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
	Location Type: Window Sampler		0.00 1.20	1.20 3.30	IP WS	Hand Dug Window Sampler			
	Coords: 382778.34E/387117.27N	Level: 59.33mOD							
	Scale: 1:30	Final Depth: 3.30 m							
Date Start: 07/08/2025		Date End: 07/08/2025							

CIVICEARTH		Project Title: Wythenshawe				Client: Muse									
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used			Groundwater						
Location ID: WS14		Location Type: Window Sampler				From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To			
		Coords: 382785.27E/386882.84N		Level: 61.49mOD		0.00 1.20	1.20 2.50	IP WS	Hand Dug Window Sampler						
Status: FINAL		Scale: 1:30		Final Depth: 2.50 m											
		Date Start: 04/08/2025		Date End: 04/08/2025											
Sheet 1 of 1															
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling					
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)			
						61.39	0.10		Concrete hardstanding. [MADE GROUND]						
		0.30	ES 1						Pale yellow brown slightly sandy gravel. Gravel is subangular to subrounded fine to coarse of dolomite. Sand is coarse.						
		0.40	ES 2			61.09	0.40		[MADE GROUND]						
		1.20	D 1						Firm to stiff red brown with orange staining gravelly CLAY. Gravel is subrounded to subangular fine to coarse of mudstone and sandstone. Occasional mudstone lithorelics, coal fragments and rare lenses of sand noted. [GLACIAL TILL]						
	2.00									1.20 2.00	110	100			
	3.00					59.04	2.45		Extremely weak to weak red laminated MUDSTONE. [WEATHERED BOLLIN MUDSTONE MEMBER]						
						58.99	2.50		EOH at 2.50m - Terminated due to refusal						
	4.00														
	5.00														
	6.00														
Notes:									Hole Diameter		Casing		Hammer Information		
1. Borehole terminated due to refusal. 2. No groundwater encountered. 3. ES = Environmental Sample; D = Disturbed Sample. 4. Location backfilled with arisings and reinstated at the surface with concrete.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.	
									2.00	101			%		
									2.50	87			Install Response Zones		
													Ref	From (m)	To (m)

CIVICEARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
		From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To						
Location ID: WS16		Location Type: Window Sampler				0.00	0.30	IP	Hand Dug					
Status: FINAL		Coords: 382607.78E/387145.84N		Level: 60.06mOD										
		Scale: 1:30		Final Depth: 0.30 m										
		Date Start: 06/08/2025		Date End: 06/08/2025										
Sheet 1 of 1														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
						59.91	0.15		Tarmacadam hardstanding. [MADE GROUND]					
						59.76	0.30		Concrete hardstanding. [MADE GROUND]					
						EOH at 0.30m - Terminated due to potential services								
Notes:														
1. Borehole abandoned due to encountering potential services. 2. No groundwater encountered. 3. Borehole backfilled with arisings in order upon completion.									Hole Diameter		Casing		Hammer Information	
									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													%	
									Install Response Zones					
									Ref	From (m)	To (m)			

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
		From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To						
Location ID: WS16A		Location Type: Window Sampler				0.00	0.25	IP	Hand Dug					
Status: FINAL		Coords: 382608.38E/387141.38N		Level: 60.03mOD										
		Scale: 1:30		Final Depth: 0.25 m										
Sheet 1 of 1		Date Start: 06/08/2025		Date End: 06/08/2025										
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
						59.88	0.15		Tarmacadam hardstanding. [MADE GROUND]					
						59.78	0.25						Concrete hardstanding. [MADE GROUND]	
						EOH at 0.25m - Terminated due to potential services								
Notes:														
1. Borehole abandoned due to encountering potential services. 2. No groundwater encountered. 3. Borehole backfilled with arisings in order upon completion.									Hole Diameter		Casing		Hammer Information	
									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													%	
									Install Response Zones					
									Ref	From (m)	To (m)			

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse										
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used		Groundwater								
Location ID: WS17		Location Type: Window Sampler				0.00 1.20	1.20 3.45	IP WS	Hand Dug Window Sampler							
		Coords: 382738.16E/387112.17N		Level: 59.28mOD												
Status: FINAL		Scale: 1:30		Final Depth: 3.45 m												
		Date Start: 07/08/2025		Date End: 07/08/2025												
Sheet 1 of 1																
Inst/ Backfill	Depth (m) 0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00	Samples & Tests			Water Level (m) 59.23 59.08 58.78 56.88 55.83	Level (mOD) 0.05 0.20 0.50 2.40 3.45	Strata Depth (m) 0.05 0.20 0.50 2.40 3.45	Legend / Cover	Strata Description				Window Sampling			
		WS Run	Dia (mm)	Recovery (%)												
		Sample Depth (m)	Type/Ref	Tests/Results					Brick hardstanding. [MADE GROUND] Reddish brown mottled black sand. Sand is coarse. Rare subangular to subrounded fine to medium gravel of quartz. Frequent rootlets. [MADE GROUND] Light brown mottled grey silty sandy gravel. Gravel is angular to subangular fine to coarse of limestone. Sand is fine to coarse. [MADE GROUND] Firm to stiff brown to dark brown mottled light grey and black slightly gravelly sandy CLAY. Sand is coarse. Gravel is subrounded to rounded fine to coarse of mudstone, sandstone, coal and limestone lithorelics. [GLACIAL TILL] from 0.50 to 0.70mbgl - Dark grey in colour, very slight organic odour.							
		0.40	ES 1													
		0.60	ES 2													
		1.20 - 1.65	D 1	SPT(S) 1.20m N=8 (1,1/1,2,3,2)										1.20 2.00	110	100
		1.80	D 2	HSV 1.70m (p)= 98 kPa HSV 1.80m (p)= 82 kPa HSV 1.90m (p)= 62 kPa SPT(S) 2.00m N=18 (2,2/3,5,5,5)												
		3.00 - 3.45	D 3	SPT(S) 3.00m 50 (25 for 15mm/50 for 20mm)										2.00 3.00	77	80

Project Title: Wythenshawe				Client: Muse					
Project Number: 51143/01	Logged By: JF Checked By: KP		Method and Plant Used				Groundwater		
			From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
	Location Type: Window Sampler		0.00 1.20	1.20 3.45	IP WS	Hand Dug Window Sampler			
	Coords: 382784.21E/387131.04N		Level: 59.46mOD						
	Scale: 1:30		Final Depth: 3.45 m						
Date Start: 07/08/2025		Date End: 07/08/2025							

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: JF Checked By: KP		Method and Plant Used			Groundwater					
Location ID: WS19		Location Type: Window Sampler				From (m) 0.00	To (m) 0.10	Type IP	Plant Used Hand Dug	Strike (m)	Time (min)	Rose To		
		Coords: 382605.83E/387106.62N		Level: 60.20mOD										
Status: FINAL		Scale: 1:30		Final Depth: 0.10 m										
		Date Start: 06/08/2025		Date End: 06/08/2025										
Sheet 1 of 1														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
						60.10	0.10		Tarmacadam hardstanding. [MADE GROUND] EOH at 0.10m - Terminated due to potential services					
	1.0													
	2.0													
	3.0													
	4.0													
	5.0													
	6.0													
Notes:									Hole Diameter		Casing		Hammer Information	
1. Borehole abandoned due to encountering potential services. 2. No groundwater encountered. 3. Borehole backfilled with arisings in order upon completion.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													%	
									Install Response Zones					
									Ref	From (m)	To (m)			

Project Title: Wythenshawe				Client: Muse					
Project Number: 51143/01	Logged By: JF Checked By: KP		Method and Plant Used				Groundwater		
			From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
	Location Type: Window Sampler		0.00 1.20	1.20 3.45	IP WS	Hand Dug Window Sampler			
	Coords: 382640.08E/387140.28N	Level: 59.90mOD							
	Scale: 1:30	Final Depth: 3.45 m							
Date Start: 06/08/2025		Date End: 06/08/2025							

Project Title: Wythenshawe				Client: Muse						
Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used				Groundwater		
				From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To
Location Type: Window Sampler				0.00 1.20	1.20 2.80	IP WS	Hand Dug Window Sampler	1.90	-	-
Coords: 382274.97E/387182.49N		Level: 58.70mOD								
Scale: 1:30		Final Depth: 2.80 m								
Date Start: 12/08/2025		Date End: 12/08/2025								

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse						
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used			Groundwater			
		From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To				
Location ID: WS23		Location Type: Window Sampler				0.00	1.20	IP	Hand Dug			
		Coords: 382241.17E/387233.99N				1.20	2.00	WS	Window Sampler			
Status: FINAL		Scale: 1:30		Final Depth: 2.00 m								
Sheet 1 of 1		Date Start: 12/08/2025		Date End: 12/08/2025								

Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling		
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)
	0.00					58.27	0.10		Tarmacadam hardstanding. [MADE GROUND]			
	0.20	0.20	ES 1			58.17	0.20		White gravel. Gravel is angular to subangular fine to coarse of dolomite.			
	0.30		ES 2						[MADE GROUND]			
	0.60	0.60	ES 3						Brown clayey GRAVEL. Gravel is angular to subangular fine to coarse of dolomite. Frequent angular to subangular cobbles of dolomite. [GLACIAL TILL]			
	1.00			SPT(S) 1.20m N=3 (7,1/1,1,0,1)		57.17	1.20		No recovery.	1.20 2.00	110	0
	2.00					56.37	2.00		EOH at 2.00m - Terminated due to sides collapsing			
	3.00											
	4.00											
	5.00											
	6.00											

Notes:

1. Borehole terminated due to sides collapsing.

2. No groundwater encountered.

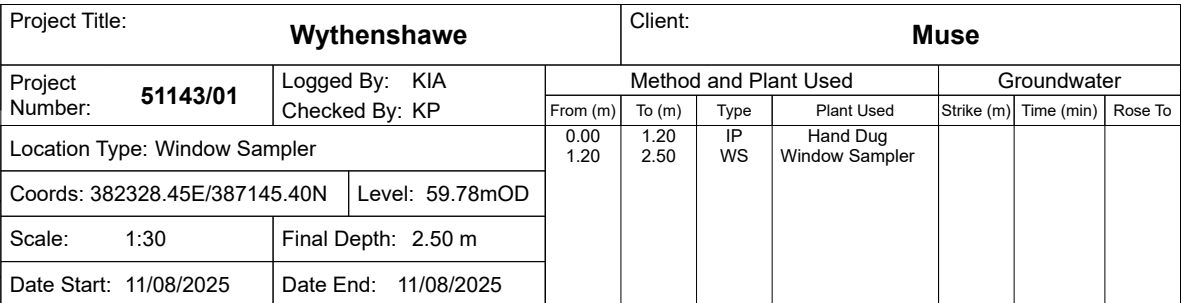
3. ES = Environmental Sample; D = Disturbed Sample.

4. Installation Details: 0.00m to 0.50m plain 63mm diameter pipe with bentonite; 0.50m to 1.00m slotted 63mm diameter pipe with gravel filter and geosock; 1.00m to 2.00m backfilled with bentonite. Gas tap, bung and flush cover.

Hole Diameter		Casing		Hammer Information	
Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
				60%	BBL7
Install Response Zones					
Ref	From (m)	To (m)			
Pipe1	0.50	1.00			

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used			Groundwater					
Location ID: WS24		Location Type: Window Sampler				0.00 1.20	1.20 2.20	IP WS	Hand Dug Window Sampler					
		Coords: 382222.04E/387139.58N		Level: 59.84mOD										
Status: FINAL		Scale: 1:30		Final Depth: 2.20 m										
		Date Start: 11/08/2025		Date End: 11/08/2025										
Sheet 1 of 1														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
						59.64	0.20		Brown slightly clayey gravelly sand. Sand is fine to medium. Gravel is angular fine of brick, ceramic, mudstone, flint and dolomite. Frequent rootlets and wood noted. [MADE GROUND]					
	0.40	ES 1											Brown slightly clayey gravelly sand. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of dolomite and brick. Rare wood noted. [MADE GROUND]	
	0.60	ES 2				59.34	0.50							
						58.94	0.90							
	1.20	D 1		SPT(S) 1.20m N=7 (1,2/1,2,2,2) HSV 1.30m (p)= 18 kPa		58.64	1.20		Soft dark black brown gravelly clay. Gravel is angular to rounded fine to coarse of dolomite and mudstone. [MADE GROUND]	1.20 2.00	110	100		
	1.80	D 2		HSV 1.70m (p)= 50 kPa		58.04	1.80		Soft to firm brown black mottled red slightly gravelly CLAY. Gravel is rounded fine of mudstone. [GLACIAL TILL]					
	2.00			SPT(S) 2.00m 50 (25 for 5mm/50 for 10mm)		57.69 57.64	2.15 2.20		Soft red slightly gravelly CLAY with mudstone lithorelics. Gravel is angular fine to medium of mudstone. [GLACIAL TILL]					
									MUDSTONE/SILTSTONE. [BOLLIN MUDSTONE MEMBER]					
									EOH at 2.20m - Terminated due to refusal					
Notes:									Hole Diameter		Casing		Hammer Information	
1. Borehole terminated due to refusal. 2. No groundwater encountered. 3. ES = Environmental Sample; D = Disturbed Sample. 4. Installation Details: 0.00m to 1.00m plain 63mm diameter pipe with bentonite; 1.00m to 2.00m slotted 63mm diameter pipe with gravel filter and geosock; 2.00m to 2.20m backfilled with bentonite. Gas tap, bung and flush cover.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													60%	BBL7
									Install Response Zones					
									Ref	From (m)	To (m)			
									Pipe1	1.00	2.00			

CIVIC EARTH		Project Title: Wythenshawe				Client: Muse								
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used		Groundwater						
Location ID: WS25		Location Type: Window Sampler				0.00 1.20	1.20 2.80	IP WS	Hand Dug Window Sampler					
		Coords: 382271.64E/387115.04N		Level: 59.90mOD										
Status: FINAL		Scale: 1:30		Final Depth: 2.80 m										
		Date Start: 11/08/2025		Date End: 11/08/2025										
Sheet 1 of 1														
Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling				
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)		
	0.20	ES 1			59.73	0.17		Tarmacadam hardstanding. [MADE GROUND]						
	0.60	ES 2			59.55	0.35		Light grey sandy gravel. Gravel is angular to subangular fine to medium of dolomite and bituminous material. Sand is fine to medium. Occasional subrounded to angular cobbles of dolomite noted. [MADE GROUND]						
	1.10	ES 3	SPT(S) 1.20m N=4 (1,1/1,1,1,1)		58.80	1.10		Yellow brown slightly sandy slightly clayey gravel. Gravel is angular to subangular fine to coarse of dolomite. Sand is fine to coarse. [MADE GROUND] from 0.40 to 1.00mbgl - Moderate hydrocarbon odour.						
	2.00	D 1	HSV 1.80m (p)= 65 kPa SPT(S) 2.00m N=6 (0,0/0,1,1,4)		58.50	1.40		Soft to firm dark brown mottled yellow very gravelly clay. Gravel is angular to rounded fine to coarse of dolomite, sandstone and mudstone. [MADE GROUND]	1.20 2.00	110	100			
	2.60	D 2	SPT(S) 2.80m 50 (25 for 5mm/50 for 10mm)		57.90	2.00		Soft to firm dark grey / brown mottled yellow slightly sandy gravelly CLAY. Gravel is subangular to rounded of sandstone and mudstone. Sand is fine to medium. [GLACIAL TILL]						
	3.0					57.15	2.75		Soft to firm dark grey / black slightly gravelly CLAY. Gravel is angular fine to medium of mudstone. Frequent fibrous organic material noted. [GLACIAL TILL]	2.00 2.80	77	90		
	4.0					57.10	2.80		MUDSTONE. [BOLLIN MUDSTONE MEMBER]					
	5.0								EOH at 2.80m - Terminated due to refusal					
	6.0													
	Notes:									Hole Diameter		Casing		Hammer Information
1. Borehole terminated due to refusal. 2. No groundwater encountered. 3. ES = Environmental Sample; D = Disturbed Sample. 4. Installation Details: 0.00m to 0.50m plain 63mm diameter pipe with bentonite; 0.50m to 1.00m slotted 63mm diameter pipe with gravel filter and geosock; 1.00m to 2.80m backfilled with bentonite. Gas tap, bung and flush cover.									Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
													60%	BBL7
									Install Response Zones					
									Ref	From (m)	To (m)			
Pipe1	0.50	1.00												



CIVIC EARTH		Project Title: Wythenshawe				Client: Muse						
		Project Number: 51143/01		Logged By: KIA Checked By: KP		Method and Plant Used			Groundwater			
		From (m)	To (m)	Type	Plant Used	Strike (m)	Time (min)	Rose To				
Location ID: WS27		Location Type: Window Sampler				0.00 1.20	1.20 2.50	IP WS	Hand Dug Window Sampler	2.30	-	-
Status: FINAL		Coords: 382248.52E/387236.97N		Level: 58.41mOD								
Sheet 1 of 1		Scale: 1:30		Final Depth: 2.50 m								
		Date Start: 12/08/2025		Date End: 12/08/2025								

Inst/ Backfill	Depth (m)	Samples & Tests			Water Level (m)	Level (mOD)	Strata Depth (m)	Legend / Cover	Strata Description	Window Sampling					
		Sample Depth (m)	Type/Ref	Tests/Results						WS Run	Dia (mm)	Recovery (%)			
	0.15	0.15	ES 1	SPT(S) 1.20m N=7 (1,1/1,2,2,2)		58.26	0.15		Tarmacadam hardstanding. [MADE GROUND]						
	0.40	0.40	ES 2						Pale yellowish brown slightly sandy clayey gravel. Gravel is subangular to subrounded medium to coarse of dolomite. Sand is fine to medium. [MADE GROUND]						
	0.60	0.60	ES 3						Soft brown gravelly clay. Gravel is angular to subangular fine to coarse of brick and dolomite. [MADE GROUND]						
	0.70	0.70	D 1						Dark brown mottled dark grey silty sandy gravelly CLAY. Gravel is subangular to rounded fine to medium of mudstone, coal and sandstone. [GLACIAL TILL]						
	1.00	1.00							Very stiff red mottled grey CLAY. [GLACIAL TILL]						
	1.50	1.50	D 2			HSV 1.60m (p)= 98 kPa		56.46	1.95					Very stiff red clay with mudstone lithorelics / extremely weathered MUDSTONE. [WEATHERED BOLLIN MUDSTONE MEMBER]	
	2.00	2.00	D 3					SPT(S) 2.00m N=43 (5,6/19,11,7,6)							EOH at 2.50m - Terminated due to refusal
	2.50	2.50						SPT(S) 2.50m 50 (25 for 10mm/50 for 20mm)							
	3.00	3.00													
	3.50	3.50													
4.00	4.00														
4.50	4.50														
5.00	5.00														
5.50	5.50														
6.00	6.00														

Notes:

1. Borehole terminated due to refusal.
2. Groundwater encountered at 2.3mbgl.
3. ES = Environmental Sample; D = Disturbed Sample.
4. Installation Details: 0.00m to 1.50m plain 63mm diameter pipe with bentonite; 1.50m to 2.50m slotted 63mm diameter pipe with gravel filter and geosock. Gas tap, bung and flush cover.

Hole Diameter		Casing		Hammer Information	
Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Energy Ratio	Serial No.
				60%	BBL7
Install Response Zones					
Ref	From (m)	To (m)			
Pipe1	1.50	2.50			

Appendix C – Ground Gas and Groundwater Monitoring Records

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

Atm. Pressure:	1002mb to 1019mb	Local Pressure System*:	Rising
Air Temperature:	13°C to 17°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
RC01 (14:30)	-	0	-	-	-	-	-	-	1.77	14.43
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		
RC02 (12:42)	-	0	-	-	-	-	-	-	2.23	14.46
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		
RC03 (10:50)		0	-	-	-	-	-	-	3.04	13.89
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		
RC06 (12:55)	1003	0	-	-	-	-	-	-	0.00	-
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

RC01 - No gas monitoring undertaken

RC02 - No gas monitoring undertaken

RC03 - No gas monitoring undertaken

RC05 - Headworks flooded unable to monitor, bung wedged too low into pipe.

RC06 - No gas monitoring undertaken. Borehole flooded to surface. Unable to open bung to measure depth to base of well.

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

Atm. Pressure:	1002mb to 1019mb	Local Pressure System*:	Rising
Air Temperature:	13°C to 17°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS01 (10:42)	1008	0	0.0	0.0	20.7	0.0	0.0	0.0	1.12	1.45
		15	0.0	0.0	15.8	3.1	0.0	0.0		
		30	0.0	0.0	16.3	2.7	0.0	0.0		
		45	0.0	0.0	16.8	2.3	0.0	0.0		
		60	0.0	0.0	17.1	2.3	0.0	0.0		
		90	0.0	0.0	17.3	2.1	0.0	0.0		
		120	0.0	0.0	17.5	2.1	0.0	0.0		
		150	0.0	0.0	17.5	2.1	0.0	0.0		
		180	0.0	0.0	17.6	2.0	0.0	0.0		
		240	0.0	0.0	17.7	2.0	0.0	0.0		
		300	0.0	0.0	17.7	2.0	0.0	0.0		
WS02A	-	0	-	-	-	-	-	-	-	-
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		
WS04 (12:06)	1008	0	0.0	0.0	21.1	0.0	0.0	0.0	Dry	1.32
		15	0.0	0.0	20.4	0.5	0.0	0.0		
		30	0.0	0.0	20.3	0.6	0.0	0.0		
		45	0.0	0.0	20.2	0.6	0.0	0.0		
		60	0.0	0.0	20.2	0.6	0.0	0.0		
		90	0.0	0.0	20.2	0.6	0.0	0.0		
		120	0.0	0.0	20.2	0.6	0.0	0.0		
		150	0.0	0.0	20.2	0.6	0.0	0.0		
		180	0.0	0.0	20.2	0.6	0.0	0.0		
		240	0.0	0.0	20.2	0.6	0.0	0.0		
		300	0.0	0.0	20.2	0.6	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

WS02A - Not monitored

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

Atm. Pressure:	1002mb to 1019mb	Local Pressure System*:	Rising
Air Temperature:	13°C to 17°C	Gas Monitor Model:	GFM436

State of Ground: Dry☐ Damp☐ Wet☒ Saturated☐

Wind Strength: Calm☐ Light☒ Moderate☐ Strong☐

Cloud Cover: Clear☐ Slight☐ Cloudy☐ Overcast☒

Precipitation Level: None☐ Slight☒ Moderate☐ Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS05 (12:48)	1009	0	40.0	400.0	20.9	0.0	0.0	0.0	0.96	2.57
		15	15.0	80.0	10.5	5.8	0.0	0.0		
		30	3.0	16.0	9.8	6.9	0.0	0.0		
		45	1.0	6.0	9.6	7.0	0.0	0.0		
		60	0.8	5.0	9.5	7.0	0.0	0.0		
		90	0.2	1.0	9.6	7.0	0.0	0.0		
		120	0.0	0.0	9.6	6.9	0.0	0.0		
		150	0.0	0.0	9.7	6.9	0.0	0.0		
		180	0.0	0.0	9.8	6.8	0.0	0.0		
		240	0.0	0.0	9.7	6.9	0.0	0.0		
		300	0.0	0.0	9.8	6.8	0.0	0.0		
WS07 (08:40)	1007	0	0.0	0.0	20.7	0.0	0.0	0.0	Dry	2.53
		15	0.0	0.0	18.9	2.8	0.0	0.0		
		30	0.0	0.0	18.3	3.2	0.0	0.0		
		45	0.0	0.0	18.3	3.2	0.0	0.0		
		60	0.0	0.0	18.3	3.2	0.0	0.0		
		90	0.0	0.0	18.2	3.2	0.0	0.0		
		120	0.0	0.0	18.2	3.2	0.0	0.0		
		150	0.0	0.0	18.2	3.2	0.0	0.0		
		180	0.0	0.0	18.2	3.2	0.0	0.0		
		240	0.0	0.0	18.2	3.2	0.0	0.0		
		300	0.0	0.0	18.2	3.3	0.0	0.0		
WS08 (09:50)	1007	0	0.0	0.0	20.8	0.0	0.0	0.0	2.19	2.86
		15	0.0	0.0	18.1	0.0	0.0	0.0		
		30	0.0	0.0	16.5	0.0	0.0	0.0		
		45	0.0	0.0	16.7	0.0	0.0	0.0		
		60	0.0	0.0	17.0	0.0	0.0	0.0		
		90	0.0	0.0	17.5	0.0	0.0	0.0		
		120	0.0	0.0	17.6	0.0	0.0	0.0		
		150	0.0	0.0	17.6	0.0	0.0	0.0		
		180	0.0	0.0	17.8	0.0	0.0	0.0		
		240	0.0	0.0	18.0	0.0	0.0	0.0		
		300	0.0	0.0	18.3	0.0	0.0	0.0		
WS13 (17:17)	997	0	0.0	0.0	20.9	0.0	0.0	0.0	Dry	1.44
		15	0.0	0.0	20.3	0.6	0.0	0.0		
		30	0.0	0.0	20.0	0.7	0.0	0.0		
		45	0.0	0.0	20.0	0.7	0.0	0.0		
		60	0.0	0.0	20.0	0.7	0.0	0.0		
		90	0.0	0.0	20.0	0.7	0.0	0.0		
		120	0.0	0.0	19.9	0.7	0.0	0.0		
		150	0.0	0.0	19.9	0.7	0.0	0.0		
		180	0.0	0.0	19.9	0.7	0.0	0.0		
		240	0.0	0.0	19.9	0.7	0.0	0.0		
		300	0.0	0.0	19.9	0.7	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

WS05 - Peak flow recorded as 48.7l/hr

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

Atm. Pressure:	1002mb to 1019mb	Local Pressure System*:	Rising
Air Temperature:	13°C to 17°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS15 (09:14)	1006	0	0.0	0.0	20.6	0.2	0.0	0.0	2.10	2.38
		15	0.0	0.0	20.2	0.9	0.0	0.0		
		30	0.0	0.0	20.0	0.9	0.0	0.0		
		45	0.0	0.0	20.0	0.9	0.0	0.0		
		60	0.0	0.0	20.0	0.9	0.0	0.0		
		90	0.0	0.0	20.0	0.9	0.0	0.0		
		120	0.0	0.0	20.0	0.9	0.0	0.0		
		150	0.0	0.0	20.0	0.9	0.0	0.0		
		180	0.0	0.0	20.0	0.9	0.0	0.0		
		240	0.0	0.0	20.0	0.9	0.0	0.0		
		300	0.0	0.0	20.0	0.9	0.0	0.0		
WS17 (16:30)	1005	0	-	-	-	-	-	-	2.19	2.84
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		
WS18 (16:40)	996	0	0.0	0.0	20.9	0.0	0.0	0.0	Damp	1.68
		15	0.0	0.0	17.9	2.2	0.0	0.0		
		30	0.0	0.0	17.0	2.3	0.0	0.0		
		45	0.0	0.0	16.9	2.3	0.0	0.0		
		60	0.0	0.0	16.9	2.3	0.0	0.0		
		90	0.0	0.0	16.8	2.4	0.0	0.0		
		120	0.0	0.0	16.8	2.4	0.0	0.0		
		150	0.0	0.0	16.8	2.4	0.0	0.0		
		180	0.0	0.0	16.8	2.4	0.0	0.0		
		240	0.0	0.0	16.8	2.4	0.0	0.0		
		300	0.0	0.0	16.8	2.4	0.0	0.0		
WS19A (15:13)	995	0	0.0	0.0	20.7	0.0	0.0	0.0	Dry	1.71
		15	0.0	0.0	13.1	3.7	0.0	0.0		
		30	0.0	0.0	8.7	4.3	0.0	0.0		
		45	0.0	0.0	8.2	4.4	0.0	0.0		
		60	0.0	0.0	8.1	4.4	0.0	0.0		
		90	0.0	0.0	7.9	4.4	0.0	0.0		
		120	0.0	0.0	7.8	4.4	0.0	0.0		
		150	0.0	0.0	7.8	4.4	0.0	0.0		
		180	0.0	0.0	7.7	4.4	0.0	0.0		
		240	0.0	0.0	7.6	4.5	0.0	0.0		
		300	0.0	0.0	7.6	4.5	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

WS17 - No gas monitoring undertaken

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

Atm. Pressure:	1002mb to 1019mb	Local Pressure System*:	Rising
Air Temperature:	13°C to 17°C	Gas Monitor Model:	GFM436

State of Ground: Dry ☐ Damp ☐ Wet ☒ Saturated ☐

Wind Strength: Calm ☐ Light ☒ Moderate ☐ Strong ☐

Cloud Cover: Clear ☐ Slight ☐ Cloudy ☐ Overcast ☒

Precipitation Level: None ☐ Slight ☒ Moderate ☐ Heavy ☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS20 (15:44)	996	0	0.0	0.0	20.9	0.0	0.0	0.0	0.50	1.13
		15	0.0	0.0	19.8	0.4	0.0	0.0		
		30	0.0	0.0	19.7	0.4	0.0	0.0		
		45	0.0	0.0	19.7	0.4	0.0	0.0		
		60	0.0	0.0	19.7	0.4	0.0	0.0		
		90	0.0	0.0	19.7	0.4	0.0	0.0		
		120	0.0	0.0	19.8	0.4	0.0	0.0		
		150	0.0	0.0	19.8	0.4	0.0	0.0		
		180	0.0	0.0	19.9	0.4	0.0	0.0		
		240	0.0	0.0	19.9	0.4	0.0	0.0		
		300	0.0	0.0	21.0	0.0	0.0	0.0		
WS21 (13:15)	-	0	-	-	-	-	-	-	1.62	2.53
		15	-	-	-	-	-	-		
		30	-	-	-	-	-	-		
		45	-	-	-	-	-	-		
		60	-	-	-	-	-	-		
		90	-	-	-	-	-	-		
		120	-	-	-	-	-	-		
		150	-	-	-	-	-	-		
		180	-	-	-	-	-	-		
		240	-	-	-	-	-	-		
		300	-	-	-	-	-	-		
WS23 (14:03)	994	0	0.0	0.0	20.9	0.0	0.0	0.0	Dry	1.04
		15	0.0	0.0	20.4	0.6	0.0	0.0		
		30	0.0	0.0	20.3	0.6	0.0	0.0		
		45	0.0	0.0	20.3	0.6	0.0	0.0		
		60	0.0	0.0	20.2	0.6	0.0	0.0		
		90	0.0	0.0	20.2	0.6	0.0	0.0		
		120	0.0	0.0	20.2	0.6	0.0	0.0		
		150	0.0	0.0	20.2	0.6	0.0	0.0		
		180	0.0	0.0	20.2	0.6	0.0	0.0		
		240	0.0	0.0	20.2	0.6	0.0	0.0		
		300	0.0	0.0	20.2	0.6	0.0	0.0		
WS24 (12:05)	992	0	0.0	0.0	20.9	0.0	0.0	0.0	1.56	1.98
		15	0.0	0.0	20.5	0.7	0.0	0.0		
		30	0.0	0.0	20.3	0.7	0.0	0.0		
		45	0.0	0.0	20.3	0.7	0.0	0.0		
		60	0.0	0.0	20.3	0.7	0.0	0.0		
		90	0.0	0.0	20.3	0.7	0.0	0.0		
		120	0.0	0.0	20.3	0.7	0.0	0.0		
		150	0.0	0.0	20.2	0.7	0.0	0.0		
		180	0.0	0.0	20.2	0.7	0.0	0.0		
		240	0.0	0.0	20.2	0.7	0.0	0.0		
		300	0.0	0.0	20.2	0.7	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

WS21 - No gas monitoring undertaken

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

Atm. Pressure:	1002mb to 1019mb	Local Pressure System*:	Rising
Air Temperature:	13°C to 17°C	Gas Monitor Model:	GFM436

State of Ground:

Dry☐

Damp☐

Wet☒

Saturated☐

Wind Strength:

Calm☐

Light☒

Moderate☐

Strong☐

Cloud Cover:

Clear☐

Slight☐

Cloudy☐

Overcast☒

Precipitation Level:

None☐

Slight☒

Moderate☐

Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS25 (11:10)	992	0	0.0	0.0	20.8	0.0	0.0	0.0	Dry	1.11
		15	0.0	0.0	20.8	0.2	0.0	0.0		
		30	0.0	0.0	20.6	0.3	0.0	0.0		
		45	0.0	0.0	20.5	0.5	0.0	0.0		
		60	0.0	0.0	20.3	0.6	0.0	0.0		
		90	0.0	0.0	20.5	0.5	0.0	0.0		
		120	0.0	0.0	20.3	0.7	0.0	0.0		
		150	0.0	0.0	20.3	0.7	0.0	0.0		
		180	0.0	0.0	20.2	0.7	0.0	0.0		
		240	0.0	0.0	19.8	1.1	0.0	0.0		
		300	0.0	0.0	19.4	1.4	0.0	0.0		
		360	-	-	19.5	1.3	0.0	-		
		420	-	-	19.6	1.2	0.0	-		
		480	-	-	20.1	0.8	0.0	-		
		540	-	-	19.7	1.2	0.0	-		
		600	-	-	20.1	0.8	0.0	-		
WS26 (10:05)	993	0	0.0	0.0	20.7	0.1	0.0	0.0	Damp	1.09
		15	0.0	0.0	16.9	2.4	0.0	0.0		
		30	0.0	0.0	16.3	2.4	0.0	0.0		
		45	0.0	0.0	16.2	2.4	0.0	0.0		
		60	0.0	0.0	16.2	2.4	0.0	0.0		
		90	0.0	0.0	16.1	2.4	0.0	0.0		
		120	0.0	0.0	16.1	2.4	0.0	0.0		
		150	0.0	0.0	16.0	2.5	0.0	0.0		
		180	0.0	0.0	15.9	2.6	0.0	0.0		
		240	0.0	0.0	15.9	2.6	0.0	0.0		
		300	0.0	0.0	16.3	2.4	0.0	0.0		
WS27 (13:27)	994	0	0.0	0.0	20.8	0.0	0.0	0.0	1.61	2.48
		15	0.0	0.0	20.0	0.6	0.0	0.0		
		30	0.0	0.0	19.8	0.6	0.0	0.0		
		45	0.0	0.0	20.0	0.6	0.0	0.0		
		60	0.0	0.0	20.0	0.5	0.0	0.0		
		90	0.0	0.0	20.1	0.5	0.0	0.0		
		120	0.0	0.0	20.1	0.4	0.0	0.0		
		150	0.0	0.0	20.2	0.4	0.0	0.0		
		180	0.0	0.0	20.3	0.3	0.0	0.0		
		240	0.0	0.0	20.4	0.3	0.0	0.0		
		300	0.0	0.0	20.5	0.2	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

Atm. Pressure:	999mb to 1007mb	Local Pressure System*:	Rising
Air Temperature:	10°C to 12°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
RC01 (14:50)	1000	0	24.7	298.0	20.9	0.0	0.0	0.0	1.29	14.40
		15	11.5	100.0	20.9	0.0	0.0	0.0		
		30	5.0	39.0	20.8	0.0	0.0	0.0		
		45	3.0	20.0	20.8	0.0	0.0	0.0		
		60	2.9	5.0	20.8	0.0	0.0	0.0		
		90	0.0	0.0	20.8	0.0	0.0	0.0		
		120	0.0	0.0	20.8	0.0	0.0	0.0		
		150	0.0	0.0	20.8	0.0	0.0	0.0		
		180	0.0	0.0	20.8	0.0	0.0	0.0		
		240	0.0	0.0	20.8	0.0	0.0	0.0		
		300	0.0	0.0	20.8	0.0	0.0	0.0		
RC02 (12:40)	999	0	55.8	800.0	20.6	0.3	0.0	0.0	2.03	14.42
		15	24.9	165.0	20.6	0.3	0.0	0.0		
		30	2.1	23.0	20.6	0.3	0.0	0.0		
		45	0.0	0.0	20.5	0.3	0.0	0.0		
		60	0.0	0.0	20.5	0.3	0.0	0.0		
		90	0.0	0.0	20.5	0.3	0.0	0.0		
		120	0.0	0.0	20.5	0.3	0.0	0.0		
		150	0.0	0.0	20.5	0.3	0.0	0.0		
		180	0.0	0.0	20.5	0.3	0.0	0.0		
		240	0.0	0.0	20.5	0.3	0.0	0.0		
		300	0.0	0.0	20.5	0.3	0.0	0.0		
RC03 (11:30)	999	0	5.5	50.0	20.1	0.0	0.0	0.0	2.87	13.90
		15	0.0	0.0	16.2	1.9	0.0	0.0		
		30	0.0	0.0	15.5	2.0	0.0	0.0		
		45	0.0	0.0	15.5	2.0	0.0	0.0		
		60	0.0	0.0	15.5	2.0	0.0	0.0		
		90	0.0	0.0	15.5	1.9	0.0	0.0		
		120	0.0	0.0	15.6	1.9	0.0	0.0		
		150	0.0	0.0	15.7	1.9	0.0	0.0		
		180	0.0	0.0	15.7	1.9	0.0	0.0		
		240	0.0	0.0	15.7	1.9	0.0	0.0		
		300	0.0	0.0	15.8	1.8	0.0	0.0		
RC06 (13:20)	999	0	28.7	250.0	20.2	0.2	0.0	0.0	2.39	14.75
		15	3.2	18.0	20.6	0.3	0.0	0.0		
		30	0.4	2.0	20.6	0.3	0.0	0.0		
		45	0.0	0.0	20.6	0.3	0.0	0.0		
		60	0.0	0.0	20.7	0.1	0.0	0.0		
		90	0.0	0.0	20.7	0.1	0.0	0.0		
		120	0.0	0.0	20.7	0.1	0.0	0.0		
		150	0.0	0.0	20.8	0.1	0.0	0.0		
		180	0.0	0.0	20.8	0.1	0.0	0.0		
		240	0.0	0.0	20.8	0.1	0.0	0.0		
		300	0.0	0.0	20.8	0.1	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

RC05 - No gas tap, gas monitoring not undertaken.

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

Atm. Pressure:	999mb to 1007mb	Local Pressure System*:	Rising
Air Temperature:	10°C to 12°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS01 (10:15)	1003	0	0.0	0.0	20.6	0.0	0.0	0.0	0.78	1.40
		15	0.0	0.0	16.2	3.1	0.0	0.0		
		30	0.0	0.0	17.0	2.2	0.0	0.0		
		45	0.0	0.0	17.3	2.1	0.0	0.0		
		60	0.0	0.0	17.6	2.0	0.0	0.0		
		90	0.0	0.0	18.2	1.7	0.0	0.0		
		120	0.0	0.0	18.6	1.4	0.0	0.0		
		150	0.0	0.0	18.7	1.3	0.0	0.0		
		180	0.0	0.0	18.6	1.2	0.0	0.0		
		240	0.0	0.0	19.0	1.1	0.0	0.0		
		300	0.0	0.0	19.1	1.0	0.0	0.0		
		360	-	-	19.2	0.9	0.0	-		
		420	-	-	19.2	0.9	0.0	-		
		480	-	-	19.3	0.9	0.0	-		
		540	-	-	19.3	0.9	0.0	-		
		600	-	-	19.3	0.9	0.0	-		
WS02A (11:00)	1004	0	0.0	0.0	20.7	0.0	0.0	0.0	1.08	1.90
		15	0.0	0.0	20.5	0.2	0.0	0.0		
		30	0.0	0.0	20.3	0.4	0.0	0.0		
		45	0.0	0.0	20.0	0.6	0.0	0.0		
		60	0.0	0.0	19.7	0.7	0.0	0.0		
		90	0.0	0.0	19.6	0.8	0.0	0.0		
		120	0.0	0.0	19.6	0.8	0.0	0.0		
		150	0.0	0.0	19.6	0.8	0.0	0.0		
		180	0.0	0.0	19.6	0.8	0.0	0.0		
		240	0.0	0.0	19.6	0.8	0.0	0.0		
WS04 (09:15)	1003	0	-0.5	-1.0	20.2	0.3	0.0	0.0	0.33	1.30
		15	0.0	0.0	19.2	0.4	0.0	0.0		
		30	0.0	0.0	19.2	0.4	0.0	0.0		
		45	0.0	0.0	19.2	0.4	0.0	0.0		
		60	0.0	0.0	-	-	0.0	0.0		
		90	0.0	0.0	-	-	0.0	0.0		
		120	0.0	0.0	-	-	0.0	0.0		
		150	0.0	0.0	-	-	0.0	0.0		
		180	0.0	0.0	-	-	0.0	0.0		
		240	0.0	0.0	-	-	0.0	0.0		
		300	0.0	0.0	-	-	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

WS04 - Gas monitoring stopped after 45 seconds due to groundwater being sucked up gas monitoring tube.

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

Atm. Pressure:	999mb to 1007mb	Local Pressure System*:	Rising
Air Temperature:	10°C to 12°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS05 (11:40)	1005	0	0.0	0.0	20.5	0.0	0.0	0.0	0.82	3.01
		15	0.0	0.0	20.4	0.2	0.0	0.0		
		30	0.0	0.0	19.9	0.8	0.0	0.0		
		45	0.0	0.0	19.5	1.5	0.0	0.0		
		60	0.0	0.0	19.2	2.2	0.0	0.0		
		90	0.0	0.0	19.3	2.1	0.0	0.0		
		120	0.0	0.0	19.4	2.0	0.0	0.0		
		150	0.0	0.0	19.5	1.9	0.0	0.0		
		180	0.0	0.0	19.7	1.6	0.0	0.0		
		240	0.0	0.0	20.1	0.9	0.0	0.0		
		300	0.0	0.0	20.3	0.7	0.0	0.0		
		360	-	-	20.4	0.7	0.0	-		
		420	-	-	20.4	0.6	0.0	-		
		480	-	-	20.5	0.4	0.0	-		
		540	-	-	20.5	0.4	0.0	-		
		600	-	-	20.5	0.4	0.0	-		
WS07 (14:10)	1006	0	0.0	0.0	20.8	0.2	0.0	0.0	Dry	2.46
		15	0.0	0.0	20.7	1.5	0.0	0.0		
		30	0.0	0.0	19.7	2.0	0.0	0.0		
		45	0.0	0.0	19.4	2.1	0.0	0.0		
		60	0.0	0.0	19.0	2.1	0.0	0.0		
		90	0.0	0.0	19.0	2.1	0.0	0.0		
		120	0.0	0.0	18.9	2.1	0.0	0.0		
		150	0.0	0.0	18.9	2.1	0.0	0.0		
		180	0.0	0.0	18.9	2.1	0.0	0.0		
		240	0.0	0.0	18.9	2.1	0.0	0.0		
WS08 (12:40)	1006	0	0.0	0.0	20.7	0.3	0.0	0.0	2.08	2.89
		15	0.0	0.0	17.3	0.1	0.0	0.0		
		30	0.0	0.0	13.2	0.1	0.0	0.0		
		45	0.0	0.0	13.2	0.1	0.0	0.0		
		60	0.0	0.0	13.2	0.1	0.0	0.0		
		90	0.0	0.0	13.2	0.1	0.0	0.0		
		120	0.0	0.0	13.2	0.1	0.0	0.0		
		150	0.0	0.0	13.6	0.1	0.0	0.0		
		180	0.0	0.0	13.6	0.1	0.0	0.0		
		240	0.0	0.0	14.0	0.1	0.0	0.0		
		300	0.0	0.0	14.7	0.1	0.0	0.0		
WS13 (15:40)	1008	0	0.0	0.0	20.7	0.2	0.0	0.0	0.40	1.40
		15	0.0	0.0	19.7	0.3	0.0	0.0		
		30	0.0	0.0	19.5	0.4	0.0	0.0		
		45	0.0	0.0	9.6	0.3	0.0	0.0		
		60	0.0	0.0	19.9	0.3	0.0	0.0		
		90	0.0	0.0	20.2	0.2	0.0	0.0		
		120	0.0	0.0	20.4	0.1	0.0	0.0		
		150	0.0	0.0	20.5	0.1	0.0	0.0		
		180	0.0	0.0	20.5	0.1	0.0	0.0		
		240	0.0	0.0	20.5	0.1	0.0	0.0		
		300	0.0	0.0	20.5	0.1	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

Atm. Pressure:	999mb to 1007mb	Local Pressure System*:	Rising
Air Temperature:	10°C to 12°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS15 (13:45)	1005	0	-2.1	-7.0	20.5	0.2	0.0	0.0	1.32	2.34
		15	0.0	0.0	20.2	0.7	0.0	0.0		
		30	0.0	0.0	20.1	0.8	0.0	0.0		
		45	0.0	0.0	20.0	0.9	0.0	0.0		
		60	0.0	0.0	20.0	0.9	0.0	0.0		
		90	0.0	0.0	20.1	0.8	0.0	0.0		
		120	0.0	0.0	20.1	0.8	0.0	0.0		
		150	0.0	0.0	20.1	0.7	0.0	0.0		
		180	0.0	0.0	20.1	0.7	0.0	0.0		
		240	0.0	0.0	20.1	0.7	0.0	0.0		
		300	0.0	0.0	20.1	0.7	0.0	0.0		
WS17 (15:00)	1006	0	0.0	0.0	20.5	0.3	0.0	0.0	0.53	2.80
		15	0.0	0.0	20.5	0.3	0.0	0.0		
		30	0.0	0.0	20.5	0.3	0.0	0.0		
		45	0.0	0.0	20.5	0.3	0.0	0.0		
		60	0.0	0.0	20.5	0.3	0.0	0.0		
		90	0.0	0.0	20.5	0.3	0.0	0.0		
		120	0.0	0.0	20.6	0.2	0.0	0.0		
		150	0.0	0.0	20.6	0.2	0.0	0.0		
		180	0.0	0.0	20.6	0.2	0.0	0.0		
		240	0.0	0.0	20.6	0.2	0.0	0.0		
		300	0.0	0.0	20.6	0.2	0.0	0.0		
WS18 (16:15)	1008	0	22.0	50.0	20.7	0.2	0.0	0.0	0.88	1.63
		15	3.0	5.0	17.9	1.7	0.0	0.0		
		30	0.0	0.0	17.3	1.8	0.0	0.0		
		45	0.0	0.0	17.3	1.7	0.0	0.0		
		60	0.0	0.0	17.4	1.7	0.0	0.0		
		90	0.0	0.0	17.6	1.6	0.0	0.0		
		120	0.0	0.0	17.8	1.5	0.0	0.0		
		150	0.0	0.0	17.8	1.5	0.0	0.0		
		180	0.0	0.0	17.9	1.4	0.0	0.0		
		240	0.0	0.0	18.0	1.4	0.0	0.0		
		300	0.0	0.0	18.0	1.4	0.0	0.0		
WS19A (09:30)	999	0	0.0	0.0	20.6	0.0	0.0	0.0	Dry	1.65
		15	0.0	0.0	8.9	4.0	0.0	0.0		
		30	0.0	0.0	6.2	5.0	0.0	0.0		
		45	0.0	0.0	6.0	5.1	0.0	0.0		
		60	0.0	0.0	5.7	5.2	0.0	0.0		
		90	0.0	0.0	5.1	5.3	0.0	0.0		
		120	0.0	0.0	5.0	5.4	0.0	0.0		
		150	0.0	0.0	4.8	5.4	0.0	0.0		
		180	0.0	0.0	4.8	5.4	0.0	0.0		
		240	0.0	0.0	4.8	5.4	0.0	0.0		
		300	0.0	0.0	4.8	5.4	0.0	0.0		
		360	-	-	9.5	3.9	-	-		
		420	-	-	9.5	3.9	-	-		
		480	-	-	9.9	3.8	-	-		
		540	-	-	9.9	3.8	-	-		
		600	-	-	9.9	3.8	-	-		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

Atm. Pressure:	999mb to 1007mb	Local Pressure System*:	Rising
Air Temperature:	10°C to 12°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS20 (10:30)	999	0	0.0	0.0	20.2	0.1	0.0	0.0	0.48	1.06
		15	0.0	0.0	20.0	0.1	0.0	0.0		
		30	0.0	0.0	19.4	0.1	0.0	0.0		
		45	0.0	0.0	19.4	0.1	0.0	0.0		
		60	0.0	0.0	19.4	0.1	0.0	0.0		
		90	0.0	0.0	19.3	0.1	0.0	0.0		
		120	0.0	0.0	19.3	0.1	0.0	0.0		
		150	0.0	0.0	19.3	0.1	0.0	0.0		
		180	0.0	0.0	19.3	0.1	0.0	0.0		
		240	0.0	0.0	19.3	0.1	0.0	0.0		
		300	0.0	0.0	19.3	0.1	0.0	0.0		
WS21 (13:45)	999	0	0.0	0.0	20.2	0.0	0.0	0.0	1.46	2.46
		15	0.0	0.0	20.1	0.4	0.0	0.0		
		30	0.0	0.0	19.9	0.4	0.0	0.0		
		45	0.0	0.0	20.0	0.4	0.0	0.0		
		60	0.0	0.0	20.0	0.4	0.0	0.0		
		90	0.0	0.0	20.0	0.4	0.0	0.0		
		120	0.0	0.0	20.0	0.4	0.0	0.0		
		150	0.0	0.0	20.0	0.4	0.0	0.0		
		180	0.0	0.0	20.0	0.4	0.0	0.0		
		240	0.0	0.0	20.0	0.4	0.0	0.0		
		300	0.0	0.0	20.0	0.4	0.0	0.0		
WS23 (14:35)	999	0	0.0	0.0	20.7	0.0	0.0	0.0	Dry	0.99
		15	0.0	0.0	20.7	0.3	0.0	0.0		
		30	0.0	0.0	20.6	0.3	0.0	0.0		
		45	0.0	0.0	20.6	0.3	0.0	0.0		
		60	0.0	0.0	20.6	0.3	0.0	0.0		
		90	0.0	0.0	20.6	0.3	0.0	0.0		
		120	0.0	0.0	20.5	0.3	0.0	0.0		
		150	0.0	0.0	20.5	0.3	0.0	0.0		
		180	0.0	0.0	20.5	0.3	0.0	0.0		
		240	0.0	0.0	20.5	0.3	0.0	0.0		
		300	0.0	0.0	20.5	0.3	0.0	0.0		
WS24 (15:10)	1002	0	0.0	0.0	20.9	0.1	0.0	0.0	1.39	1.89
		15	0.0	0.0	20.6	0.4	0.0	0.0		
		30	0.0	0.0	20.5	0.5	0.0	0.0		
		45	0.0	0.0	20.5	0.5	0.0	0.0		
		60	0.0	0.0	20.5	0.5	0.0	0.0		
		90	0.0	0.0	20.5	0.5	0.0	0.0		
		120	0.0	0.0	20.4	0.5	0.0	0.0		
		150	0.0	0.0	20.4	0.5	0.0	0.0		
		180	0.0	0.0	20.4	0.5	0.0	0.0		
		240	0.0	0.0	20.4	0.5	0.0	0.0		
		300	0.0	0.0	20.4	0.5	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

Atm. Pressure:	999mb to 1007mb	Local Pressure System*:	Rising
Air Temperature:	10°C to 12°C	Gas Monitor Model:	GFM436

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS25 (12:15)	999	0	0.0	0.0	20.3	0.3	0.0	0.0	0.80	1.01
		15	0.0	0.0	20.3	0.6	0.0	0.0		
		30	0.0	0.0	20.3	0.7	0.0	0.0		
		45	0.0	0.0	20.3	0.7	0.0	0.0		
		60	0.0	0.0	20.3	0.7	0.0	0.0		
		90	0.0	0.0	20.4	0.4	0.0	0.0		
		120	0.0	0.0	20.5	0.3	0.0	0.0		
		150	0.0	0.0	20.4	0.4	0.0	0.0		
		180	0.0	0.0	20.4	0.4	0.0	0.0		
		240	0.0	0.0	20.4	0.4	0.0	0.0		
		300	0.0	0.0	20.4	0.4	0.0	0.0		
WS26 (11:15)	999	0	0.0	0.0	20.6	0.0	0.0	0.0	Dry	1.02
		15	0.0	0.0	19.5	1.0	0.0	0.0		
		30	0.0	0.0	18.0	1.3	0.0	0.0		
		45	0.0	0.0	17.9	1.3	0.0	0.0		
		60	0.0	0.0	18.0	1.3	0.0	0.0		
		90	0.0	0.0	18.2	1.3	0.0	0.0		
		120	0.0	0.0	18.2	1.2	0.0	0.0		
		150	0.0	0.0	18.2	1.1	0.0	0.0		
		180	0.0	0.0	18.2	1.1	0.0	0.0		
		240	0.0	0.0	18.3	1.1	0.0	0.0		
		300	0.0	0.0	18.3	1.1	0.0	0.0		
WS27 (14:15)	1000	0	24.0	200.0	20.6	0.0	0.0	0.0	1.34	2.42
		15	2.0	20.0	20.4	0.5	0.0	0.0		
		30	0.0	0.0	20.3	0.6	0.0	0.0		
		45	0.0	0.0	20.3	0.6	0.0	0.0		
		60	0.0	0.0	20.4	0.5	0.0	0.0		
		90	0.0	0.0	20.5	0.3	0.0	0.0		
		120	0.0	0.0	20.6	0.3	0.0	0.0		
		150	0.0	0.0	20.6	0.3	0.0	0.0		
		180	0.0	0.0	20.7	0.2	0.0	0.0		
		240	0.0	0.0	20.7	0.2	0.0	0.0		
		300	0.0	0.0	20.7	0.2	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

Atm. Pressure:	1013mb to 1014mb	Local Pressure System*:	Steady
Air Temperature:	12°C to 15°C	Gas Monitor Model:	GFM436

State of Ground: Dry ☒ Damp ☐ Wet ☐ Saturated ☐

Wind Strength: Calm ☒ Light ☐ Moderate ☐ Strong ☐

Cloud Cover: Clear ☐ Slight ☒ Cloudy ☐ Overcast ☐

Precipitation Level: None ☒ Slight ☐ Moderate ☐ Heavy ☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
RC01 (11:00)	1014	0	0.0	0.0	20.4	0.1	0.0	0.0	1.46	14.38
		15	0.0	0.0	20.3	0.1	0.0	0.0		
		30	0.0	0.0	20.6	0.1	0.0	0.0		
		45	0.0	0.0	20.6	0.1	0.0	0.0		
		60	0.0	0.0	20.6	0.1	0.0	0.0		
		90	0.0	0.0	20.6	0.1	0.0	0.0		
		120	0.0	0.0	20.6	0.0	0.0	0.0		
		150	0.0	0.0	20.6	0.0	0.0	0.0		
		180	0.0	0.0	20.6	0.0	0.0	0.0		
		240	0.0	0.0	20.6	0.0	0.0	0.0		
		300	0.0	0.0	20.6	0.0	0.0	0.0		
RC02 (09:05)	1013	0	72.0	1560.0	20.2	0.1	0.0	0.0	2.03	14.39
		15	25.2	390.0	20.4	0.3	0.0	0.0		
		30	4.3	30.0	20.4	0.3	0.0	0.0		
		45	0.6	3.0	20.3	0.3	0.0	0.0		
		60	0.0	0.0	20.4	0.3	0.0	0.0		
		90	0.0	0.0	20.5	0.2	0.0	0.0		
		120	0.0	0.0	20.5	0.2	0.0	0.0		
		150	0.0	0.0	20.5	0.1	0.0	0.0		
		180	0.0	0.0	20.5	0.1	0.0	0.0		
		240	0.0	0.0	20.5	0.1	0.0	0.0		
		300	0.0	0.0	20.5	0.1	0.0	0.0		
RC03 (08:10)	1014	0	2.0	25.0	20.1	0.1	0.0	0.0	2.77	13.87
		15	0.0	0.0	16.8	2.1	0.0	0.0		
		30	0.0	0.0	14.7	2.3	0.0	0.0		
		45	0.0	0.0	14.6	2.3	0.0	0.0		
		60	0.0	0.0	14.6	2.3	0.0	0.0		
		90	0.0	0.0	14.8	2.2	0.0	0.0		
		120	0.0	0.0	14.9	2.2	0.0	0.0		
		150	0.0	0.0	15.0	2.2	0.0	0.0		
		180	0.0	0.0	15.1	2.1	0.0	0.0		
		240	0.0	0.0	15.1	2.1	0.0	0.0		
		300	0.0	0.0	15.2	2.1	0.0	0.0		
RC06 (09:25)	1013	0	110.1	>2500	20.5	0.2	0.0	0.0	2.11	14.65
		15	70.0	2500.0	20.5	0.4	0.0	0.0		
		30	16.0	150.0	20.5	0.3	0.0	0.0		
		45	5.0	80.0	20.5	0.3	0.0	0.0		
		60	3.0	60.0	20.5	0.3	0.0	0.0		
		90	4.0	50.0	20.5	0.2	0.0	0.0		
		120	4.0	40.0	20.5	0.2	0.0	0.0		
		150	0.0	0.0	20.6	0.2	0.0	0.0		
		180	0.0	0.0	20.6	0.2	0.0	0.0		
		240	0.0	0.0	20.6	0.2	0.0	0.0		
		300	0.0	0.0	20.6	0.1	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

RC05 - No gas tap, gas monitoring not undertaken.

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

Atm. Pressure:	1013mb to 1014mb	Local Pressure System*:	Steady
Air Temperature:	12°C to 15°C	Gas Monitor Model:	GFM436

State of Ground:

Dry☒

Damp☐

Wet☐

Saturated☐

Wind Strength:

Calm☒

Light☐

Moderate☐

Strong☐

Cloud Cover:

Clear☐

Slight☒

Cloudy☐

Overcast☐

Precipitation Level:

None☒

Slight☐

Moderate☐

Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS01 (15:25)	1014	0	0.0	0.0	20.1	0.2	0.0	0.0	0.57	1.38
		15	0.0	0.0	18.9	2.3	0.8	0.0		
		30	0.0	0.0	18.8	2.0	0.9	0.0		
		45	0.0	0.0	19.2	1.6	0.6	0.0		
		60	0.0	0.0	19.5	1.3	0.2	0.0		
		90	0.0	0.0	20.1	0.8	0.0	0.0		
		120	0.0	0.0	20.2	0.7	0.0	0.0		
		150	0.0	0.0	20.4	0.6	0.0	0.0		
		180	0.0	0.0	20.5	0.5	0.0	0.0		
		240	0.0	0.0	20.6	0.5	0.0	0.0		
		300	0.0	0.0	20.6	0.4	0.0	0.0		
WS02A (15:00)	1014	0	0.0	0.0	20.7	0.1	0.0	0.0	1.08	1.90
		15	0.0	0.0	16.8	1.9	0.0	0.0		
		30	0.0	0.0	16.4	2.0	0.0	0.0		
		45	0.0	0.0	16.2	2.0	0.0	0.0		
		60	0.0	0.0	16.2	2.0	0.0	0.0		
		90	0.0	0.0	16.2	2.0	0.0	0.0		
		120	0.0	0.0	16.2	2.0	0.0	0.0		
		150	0.0	0.0	16.2	2.0	0.0	0.0		
		180	0.0	0.0	16.1	2.0	0.0	0.0		
		240	0.0	0.0	16.1	2.0	0.0	0.0		
		300	0.0	0.0	16.1	2.0	0.0	0.0		
WS04 (14:30)	1013	0	-4.0	-25.0	20.5	0.4	0.0	0.0	0.48	1.33
		15	0.0	0.0	19.9	0.5	0.0	0.0		
		30	0.0	0.0	19.4	0.5	0.0	0.0		
		45	0.0	0.0	19.4	0.5	0.0	0.0		
		60	0.0	0.0	19.5	0.5	0.0	0.0		
		90	0.0	0.0	19.7	0.4	0.0	0.0		
		120	0.0	0.0	-	-	0.0	0.0		
		150	0.0	0.0	-	-	0.0	0.0		
		180	0.0	0.0	-	-	0.0	0.0		
		240	0.0	0.0	-	-	0.0	0.0		
		300	0.0	0.0	-	-	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

WS04 - Gas monitoring stopped after 90 seconds due to groundwater being sucked up gas monitoring tube.

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

Atm. Pressure:	1013mb to 1014mb	Local Pressure System*:	Steady
Air Temperature:	12°C to 15°C	Gas Monitor Model:	GFM436

State of Ground:

Dry☒

Damp☐

Wet☐

Saturated☐

Wind Strength:

Calm☒

Light☐

Moderate☐

Strong☐

Cloud Cover:

Clear☐

Slight☒

Cloudy☐

Overcast☐

Precipitation Level:

None☒

Slight☐

Moderate☐

Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS05 (14:10)	1014	0	0.0	0.0	19.9	0.3	0.0	0.0	0.88	3.01
		15	0.0	0.0	20.3	0.9	0.0	0.0		
		30	0.0	0.0	20.6	0.7	0.0	0.0		
		45	0.0	0.0	20.7	0.6	0.0	0.0		
		60	0.0	0.0	20.7	0.5	0.0	0.0		
		90	0.0	0.0	20.8	0.4	0.0	0.0		
		120	0.0	0.0	20.8	0.4	0.0	0.0		
		150	0.0	0.0	20.8	0.4	0.0	0.0		
		180	0.0	0.0	20.8	0.3	0.0	0.0		
		240	0.0	0.0	20.8	0.3	0.0	0.0		
		300	0.0	0.0	20.8	0.3	0.0	0.0		
WS07 (13:50)	1014	0	0.0	0.0	19.9	0.1	0.0	0.0	Dry	2.47
		15	0.0	0.0	15.6	3.9	0.0	0.0		
		30	0.0	0.0	14.7	4.1	0.0	0.0		
		45	0.0	0.0	14.5	4.2	0.0	0.0		
		60	0.0	0.0	14.5	4.2	0.0	0.0		
		90	0.0	0.0	14.5	4.2	0.0	0.0		
		120	0.0	0.0	14.5	4.2	0.0	0.0		
		150	0.0	0.0	14.4	4.2	0.0	0.0		
		180	0.0	0.0	14.4	4.2	0.0	0.0		
		240	0.0	0.0	14.5	4.1	0.0	0.0		
		300	0.0	0.0	14.5	4.1	0.0	0.0		
WS08 (13:10)	1015	0	-27.5	-360.0	20.7	0.1	0.0	0.0	1.81	2.87
		15	-0.4	-2.0	3.3	0.4	0.0	0.0		
		30	0.0	0.0	2.2	0.4	0.0	0.0		
		45	0.0	0.0	2.0	0.4	0.0	0.0		
		60	0.0	0.0	2.1	0.4	0.0	0.0		
		90	0.0	0.0	2.2	0.4	0.0	0.0		
		120	0.0	0.0	2.9	0.4	0.0	0.0		
		150	0.0	0.0	4.7	0.3	0.0	0.0		
		180	0.0	0.0	7.4	0.3	0.0	0.0		
		240	0.0	0.0	9.2	0.3	0.0	0.0		
		300	0.0	0.0	9.7	0.2	0.0	0.0		
WS13 (12:20)	1015	0	0.0	0.0	20.8	0.0	0.0	0.0	0.96	1.40
		15	0.0	0.0	20.7	0.1	0.0	0.0		
		30	0.0	0.0	20.6	0.1	0.0	0.0		
		45	0.0	0.0	20.6	0.1	0.0	0.0		
		60	0.0	0.0	20.6	0.1	0.0	0.0		
		90	0.0	0.0	20.6	0.0	0.0	0.0		
		120	0.0	0.0	20.7	0.0	0.0	0.0		
		150	0.0	0.0	20.7	0.0	0.0	0.0		
		180	0.0	0.0	20.7	0.0	0.0	0.0		
		240	0.0	0.0	20.7	0.0	0.0	0.0		
		300	0.0	0.0	20.7	0.0	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

Atm. Pressure:	1013mb to 1014mb	Local Pressure System*:	Steady
Air Temperature:	12°C to 15°C	Gas Monitor Model:	GFM436

State of Ground:

Dry☒

Damp☐

Wet☐

Saturated☐

Wind Strength:

Calm☒

Light☐

Moderate☐

Strong☐

Cloud Cover:

Clear☐

Slight☒

Cloudy☐

Overcast☐

Precipitation Level:

None☒

Slight☐

Moderate☐

Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS15 (13:25)	1014	0	3.1	10.0	19.9	0.3	0.0	0.0	1.98	2.32
		15	0.0	0.0	18.7	0.7	0.0	0.0		
		30	0.0	0.0	16.9	1.4	0.0	0.0		
		45	0.0	0.0	18.8	1.4	0.0	0.0		
		60	0.0	0.0	18.8	1.4	0.0	0.0		
		90	0.0	0.0	18.8	1.4	0.0	0.0		
		120	0.0	0.0	18.8	1.4	0.0	0.0		
		150	0.0	0.0	18.8	1.4	0.0	0.0		
		180	0.0	0.0	18.8	1.4	0.0	0.0		
		240	0.0	0.0	18.8	1.4	0.0	0.0		
		300	0.0	0.0	18.8	1.4	0.0	0.0		
WS17 (12:05)	1015	0	-150.0	Error	20.5	0.3	0.0	0.0	1.69	2.79
		15	0.0	0.0	18.1	1.2	0.0	0.0		
		30	0.0	0.0	13.4	0.4	0.0	0.0		
		45	0.0	0.0	20.4	0.1	0.0	0.0		
		60	0.0	0.0	20.6	0.0	0.0	0.0		
		90	0.0	0.0	20.7	0.0	0.0	0.0		
		120	0.0	0.0	20.7	0.0	0.0	0.0		
		150	0.0	0.0	20.7	0.0	0.0	0.0		
		180	0.0	0.0	20.7	0.0	0.0	0.0		
		240	0.0	0.0	20.7	0.0	0.0	0.0		
		300	0.0	0.0	20.7	0.0	0.0	0.0		
WS18 (12:40)	1014	0	23.6	65.0	19.8	0.1	0.0	0.0	1.21	1.63
		15	0.0	0.0	11.2	2.2	0.0	0.0		
		30	0.0	0.0	11.7	2.1	0.0	0.0		
		45	0.0	0.0	13.0	1.9	0.0	0.0		
		60	0.0	0.0	13.0	1.9	0.0	0.0		
		90	0.0	0.0	12.8	1.9	0.0	0.0		
		120	0.0	0.0	12.7	1.9	0.0	0.0		
		150	0.0	0.0	12.5	2.0	0.0	0.0		
		180	0.0	0.0	12.0	2.1	0.0	0.0		
		240	0.0	0.0	10.5	2.5	0.0	0.0		
		300	0.0	0.0	10.7	2.3	0.0	0.0		
WS19A (11:20)	1014	0	0.0	0.0	20.6	0.0	0.0	0.0	Dry	1.65
		15	0.0	0.0	17.5	2.0	0.0	0.0		
		30	0.0	0.0	13.1	2.5	0.0	0.0		
		45	0.0	0.0	15.7	1.5	0.0	0.0		
		60	0.0	0.0	17.1	1.2	0.0	0.0		
		90	0.0	0.0	17.9	1.0	0.0	0.0		
		120	0.0	0.0	18.1	0.9	0.0	0.0		
		150	0.0	0.0	18.2	0.9	0.0	0.0		
		180	0.0	0.0	18.3	0.9	0.0	0.0		
		240	0.0	0.0	18.3	0.9	0.0	0.0		
		300	0.0	0.0	18.3	0.9	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

Atm. Pressure:	1013mb to 1014mb	Local Pressure System*:	Steady
Air Temperature:	12°C to 15°C	Gas Monitor Model:	GFM436

State of Ground:

Dry☒

Damp☐

Wet☐

Saturated☐

Wind Strength:

Calm☒

Light☐

Moderate☐

Strong☐

Cloud Cover:

Clear☐

Slight☒

Cloudy☐

Overcast☐

Precipitation Level:

None☒

Slight☐

Moderate☐

Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS20 (11:45)	1014	0	0.0	0.0	20.2	0.1	0.0	0.0	0.51	1.06
		15	0.0	0.0	20.0	0.2	0.0	0.0		
		30	0.0	0.0	20.6	0.1	0.0	0.0		
		45	0.0	0.0	20.7	0.0	0.0	0.0		
		60	0.0	0.0	20.6	0.0	0.0	0.0		
		90	0.0	0.0	20.6	0.0	0.0	0.0		
		120	0.0	0.0	20.6	0.0	0.0	0.0		
		150	0.0	0.0	20.6	0.0	0.0	0.0		
		180	0.0	0.0	20.6	0.0	0.0	0.0		
		240	0.0	0.0	20.6	0.0	0.0	0.0		
		300	0.0	0.0	20.6	0.0	0.0	0.0		
WS21 (10:00)	1014	0	0.0	0.0	20.6	0.0	0.0	0.0	1.47	2.47
		15	0.0	0.0	17.9	0.8	0.0	0.0		
		30	0.0	0.0	17.4	0.8	0.0	0.0		
		45	0.0	0.0	17.2	0.8	0.0	0.0		
		60	0.0	0.0	17.2	0.8	0.0	0.0		
		90	0.0	0.0	17.1	0.8	0.0	0.0		
		120	0.0	0.0	17.1	0.8	0.0	0.0		
		150	0.0	0.0	17.1	0.8	0.0	0.0		
		180	0.0	0.0	17.1	0.8	0.0	0.0		
		240	0.0	0.0	17.0	0.9	0.0	0.0		
		300	0.0	0.0	17.0	0.9	0.0	0.0		
WS23 (10:45)	1014	0	0.0	0.0	20.7	0.0	0.0	0.0	Dry	0.99
		15	0.0	0.0	20.5	0.3	0.0	0.0		
		30	0.0	0.0	20.5	0.3	0.0	0.0		
		45	0.0	0.0	20.5	0.3	0.0	0.0		
		60	0.0	0.0	20.4	0.3	0.0	0.0		
		90	0.0	0.0	20.4	0.3	0.0	0.0		
		120	0.0	0.0	20.4	0.3	0.0	0.0		
		150	0.0	0.0	20.4	0.3	0.0	0.0		
		180	0.0	0.0	20.4	0.3	0.0	0.0		
		240	0.0	0.0	20.4	0.3	0.0	0.0		
		300	0.0	0.0	20.4	0.3	0.0	0.0		
WS24 (08:50)	1013	0	0.0	0.0	20.3	0.1	0.0	0.0	0.94	1.90
		15	0.0	0.0	20.2	0.7	0.0	0.0		
		30	0.0	0.0	20.1	0.7	0.0	0.0		
		45	0.0	0.0	20.2	0.6	0.0	0.0		
		60	0.0	0.0	20.2	0.5	0.0	0.0		
		90	0.0	0.0	20.3	0.5	0.0	0.0		
		120	0.0	0.0	20.3	0.4	0.0	0.0		
		150	0.0	0.0	20.4	0.3	0.0	0.0		
		180	0.0	0.0	20.5	0.3	0.0	0.0		
		240	0.0	0.0	20.5	0.2	0.0	0.0		
		300	0.0	0.0	20.5	0.2	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Ground Gas Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

Atm. Pressure:	1013mb to 1014mb	Local Pressure System*:	Steady
Air Temperature:	12°C to 15°C	Gas Monitor Model:	GFM436

State of Ground:

Dry☒

Damp☐

Wet☐

Saturated☐

Wind Strength:

Calm☒

Light☐

Moderate☐

Strong☐

Cloud Cover:

Clear☐

Slight☒

Cloudy☐

Overcast☐

Precipitation Level:

None☒

Slight☐

Moderate☐

Heavy☐

Borehole Reference (Time Monitored)	Atm. Pressure	Time (secs)	Flow (l/hr)	Diff. Pressure (mb)	O ₂ (%v/v)	CO ₂ (%v/v)	CH ₄ (%v/v)	PID (ppm)	Depth to Water (mbgl)	Depth to Base (mbgl)
WS25 (08:35)	1014	0	0.0	0.0	20.5	0.1	0.0	0.0	Dry	1.04
		15	0.0	0.0	20.5	0.4	0.0	0.0		
		30	0.0	0.0	20.3	0.4	0.0	0.0		
		45	0.0	0.0	20.3	0.4	0.0	0.0		
		60	0.0	0.0	20.3	0.4	0.0	0.0		
		90	0.0	0.0	20.2	0.5	0.0	0.0		
		120	0.0	0.0	20.2	0.5	0.0	0.0		
		150	0.0	0.0	20.3	0.5	0.0	0.0		
		180	0.0	0.0	20.3	0.5	0.0	0.0		
		240	0.0	0.0	20.3	0.4	0.0	0.0		
		300	0.0	0.0	20.3	0.4	0.0	0.0		
WS26 (07:45)	1015	0	0.0	0.0	20.4	0.0	0.0	0.0	Dry	1.03
		15	0.0	0.0	16.2	1.8	0.0	0.0		
		30	0.0	0.0	15.4	1.8	0.0	0.0		
		45	0.0	0.0	15.6	1.7	0.0	0.0		
		60	0.0	0.0	15.9	1.7	0.0	0.0		
		90	0.0	0.0	16.6	1.4	0.0	0.0		
		120	0.0	0.0	17.0	1.2	0.0	0.0		
		150	0.0	0.0	17.8	1.0	0.0	0.0		
		180	0.0	0.0	18.1	0.9	0.0	0.0		
		240	0.0	0.0	18.7	0.7	0.0	0.0		
		300	0.0	0.0	19.2	0.6	0.0	0.0		
WS27 (10:20)	1013	0	-30.0	-350.0	20.3	0.4	0.0	0.0	1.25	2.41
		15	-3.0	-50.0	20.3	0.4	0.0	0.0		
		30	0.0	0.0	20.3	0.4	0.0	0.0		
		45	0.0	0.0	20.3	0.4	0.0	0.0		
		60	0.0	0.0	20.3	0.3	0.0	0.0		
		90	0.0	0.0	20.3	0.3	0.0	0.0		
		120	0.0	0.0	20.4	0.3	0.0	0.0		
		150	0.0	0.0	20.5	0.2	0.0	0.0		
		180	0.0	0.0	20.5	0.2	0.0	0.0		
		240	0.0	0.0	20.5	0.2	0.0	0.0		
		300	0.0	0.0	20.5	0.2	0.0	0.0		

Notes:

*With reference to the Weather Underground rolling weather archive station.

*Atm. = Atmospheric

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference	RC01	RC02	RC03	RC05	RC06	WS01	WS02A	WS04
Target Stratum	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Made Ground	Glacial Till	Made Ground
Ground Level (mOD)	58.50	58.92	59.71	59.87	58.68	62.86	62.70	62.13
Groundwater Depth (mbgl)	1.77	2.23	3.04	0.00	0.00	1.12	-	Dry
Groundwater Level (mOD)	56.73	56.69	56.67	59.87	58.68	61.74	-	Dry
Base of Well (mbgl)	14.43	14.46	13.89	-	-	1.45	-	1.32
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condition of Well	Good	Good	Good	Good	Good	Good	Good	Good
Top of Response Zone (mbgl)	3.00	3.00	2.00	3.00	3.00	0.50	1.00	0.50
Base of Response Zone (mbgl)	15.00	15.00	14.00	15.00	15.00	1.20	2.00	1.00
Top of Response Zone (mOD)	55.50	55.92	57.71	56.87	55.68	62.36	61.70	61.63
Base of Response Zone (mOD)	43.50	43.92	45.71	44.87	43.68	61.66	60.70	61.13
Hydrocarbon Sheen Observed?	No	No	No	No	No	No	No	No
Thickness of Free Product (m)	-	-	-	-	-	-	-	-

Groundwater Sampling Details								
Purge Method	-	-	-	-	-	-	-	-
Purged Volume	-	-	-	-	-	-	-	-
Recharge (Good / Poor)	-	-	-	-	-	-	-	-
Sampling Method	-	-	-	-	-	-	-	-
Volume of Water Sampled (ltrs)	-	-	-	-	-	-	-	-
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	-
Colour / Odours Noted	-	-	-	-	-	-	-	-
In-situ pH	-	-	-	-	-	-	-	-
In-situ Temperature (°C)	-	-	-	-	-	-	-	-
In-situ Dissolved Oxygen (%)	-	-	-	-	-	-	-	-
In-situ Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
In-situ Total Dissolved Solids (ppt)	-	-	-	-	-	-	-	-

Notes:

RC05 - Bung wedged too low into pipe, unable to remove. Headworks flooded to surface level.

RC06 - Unable to open bung. Headworks flooded to surface level.

WS02A - Not monitored.

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference	WS05	WS07	WS08	WS13	WS15	WS17	WS18	WS19A
Target Stratum	Made Ground / Glacial Till / W Bedrock	Drift	Drift	Made Ground	Drift	Drift	Made Ground	Drift
Ground Level (mOD)	63.10	61.51	61.68	59.47	61.68	59.28	59.46	59.95
Groundwater Depth (mbgl)	0.96	Dry	2.19	Dry	2.10	2.19	Dry	Dry
Groundwater Level (mOD)	62.14	Dry	59.49	Dry	59.58	57.09	Dry	Dry
Base of Well (mbgl)	2.57	2.53	2.86	1.44	2.38	2.84	1.68	1.71
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condition of Well	Good	Good	Good	Good	Good	Good	Good	Good
Top of Response Zone (mbgl)	1.50	1.00	1.00	0.50	1.00	1.00	0.80	0.80
Base of Response Zone (mbgl)	3.00	2.70	2.80	1.40	2.60	3.00	1.50	1.80
Top of Response Zone (mOD)	61.60	60.51	60.68	58.97	60.68	58.28	58.66	59.15
Base of Response Zone (mOD)	60.10	58.81	58.88	58.07	59.08	56.28	57.96	58.15
Hydrocarbon Sheen Observed?	No	No	No	No	No	No	No	No
Thickness of Free Product (m)	-	-	-	-	-	-	-	-

Groundwater Sampling Details								
Purge Method	-	-	-	-	-	-	-	-
Purged Volume	-	-	-	-	-	-	-	-
Recharge (Good / Poor)	-	-	-	-	-	-	-	-
Sampling Method	-	-	-	-	-	-	-	-
Volume of Water Sampled (ltrs)	-	-	-	-	-	-	-	-
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	-
Colour / Odours Noted	-	-	-	-	-	-	-	-
In-situ pH	-	-	-	-	-	-	-	-
In-situ Temperature (°C)	-	-	-	-	-	-	-	-
In-situ Dissolved Oxygen (%)	-	-	-	-	-	-	-	-
In-situ Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
In-situ Total Dissolved Solids (ppt)	-	-	-	-	-	-	-	-

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	JF
Date of Visit:	4 & 5 September 2025	Time of Visit:	08:30 - 17:30

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference	WS20	WS21	WS23	WS24	WS25	WS26	WS27	
Target Stratum	Made Ground	Glacial Till / W Bedrock	Made Ground	Made Ground / Glacial Till	Made Ground	Made Ground	Glacial Till / W Bedrock	
Ground Level (mOD)	59.90	58.70	58.37	59.84	59.90	59.78	58.41	
Groundwater Depth (mbgl)	0.50	1.62	Dry	1.56	Dry	Dry	1.61	
Groundwater Level (mOD)	59.40	57.08	Dry	58.28	Dry	Dry	56.80	
Base of Well (mbgl)	1.13	2.53	1.04	1.98	1.11	1.09	2.48	
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Condition of Well	Good	Good	Good	Good	Good	Good	Good	
Top of Response Zone (mbgl)	0.50	1.50	0.50	1.00	0.50	0.50	1.50	
Base of Response Zone (mbgl)	1.00	2.50	1.00	2.00	1.00	1.00	2.50	
Top of Response Zone (mOD)	59.40	57.20	57.87	58.84	59.40	59.28	56.91	
Base of Response Zone (mOD)	58.90	56.20	57.37	57.84	58.90	58.78	55.91	
Hydrocarbon Sheen Observed?	No	No	No	No	No	No	No	
Thickness of Free Product (m)	-	-	-	-	-	-	-	

Groundwater Sampling Details								
Purge Method	-	-	-	-	-	-	-	
Purged Volume	-	-	-	-	-	-	-	
Recharge (Good / Poor)	-	-	-	-	-	-	-	
Sampling Method	-	-	-	-	-	-	-	
Volume of Water Sampled (ltrs)	-	-	-	-	-	-	-	
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	
Colour / Odours Noted	-	-	-	-	-	-	-	
In-situ pH	-	-	-	-	-	-	-	
In-situ Temperature (°C)	-	-	-	-	-	-	-	
In-situ Dissolved Oxygen (%)	-	-	-	-	-	-	-	
In-situ Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	
In-situ Total Dissolved Solids (ppt)	-	-	-	-	-	-	-	

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference	RC01	RC02	RC03	RC05	RC06	WS01	WS02A	WS04
Target Stratum	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Made Ground	Glacial Till	Made Ground
Ground Level (mOD)	58.50	58.92	59.71	59.87	58.68	62.86	62.70	62.13
Groundwater Depth (mbgl)	1.29	2.03	2.87	2.14	2.39	0.78	1.08	0.33
Groundwater Level (mOD)	57.21	56.89	56.84	57.73	56.29	62.08	61.62	61.80
Base of Well (mbgl)	14.40	14.42	13.90	14.63	14.75	1.40	1.90	1.30
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condition of Well	Good	Good	Good	Good	Good	Good	Good	Good
Top of Response Zone (mbgl)	3.00	3.00	2.00	3.00	3.00	0.50	1.00	0.50
Base of Response Zone (mbgl)	15.00	15.00	14.00	15.00	15.00	1.20	2.00	1.00
Top of Response Zone (mOD)	55.50	55.92	57.71	56.87	55.68	62.36	61.70	61.63
Base of Response Zone (mOD)	43.50	43.92	45.71	44.87	43.68	61.66	60.70	61.13
Hydrocarbon Sheen Observed?	No	No	No	No	No	No	No	No
Thickness of Free Product (m)	-	-	-	-	-	-	-	-

Groundwater Sampling Details								
Purge Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Purged Volume	24.5	23.2	20.5	23.5	23.2	1.2	1.5	1.8
Recharge (Good / Poor)	Good	Good	Good	Good	Good	Poor	Good	Good
Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Volume of Water Sampled (ltrs)	2J + 2V	2J + 2V	2J + 2V	2J + 2V	2J + 2V	2J + 2V	2J + 2V	2J + 2V
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	-
Colour / Odours Noted	Brown silty water. No odour.	Light brown slightly silty water. No odour.	Light brown silty water. No odour.	Light brown silty water. No odour.	Brown silty water. No odour.	Black silty water. Sewage odour.	Brown silty water. No odour.	Brown silty water. No odour.
In-situ pH	7.79	7.30	7.13	7.64	7.01	7.07	7.47	7.71
In-situ Temperature (°C)	18.00	18.50	16.50	16.20	17.60	16.40	17.20	15.80
In-situ Dissolved Oxygen (%)	7.50	7.60	10.10	10.00	7.60	2.80	1.46	15.00
In-situ Electrical Conductivity (µS/cm)	1.51	1.96	1.27	0.71	2.18	2.10	2.31	1.72
In-situ Total Dissolved Solids (ppt)	0.75	0.98	0.64	0.35	1.09	1.05	1.18	0.79

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference	WS05	WS07	WS08	WS13	WS15	WS17	WS18	WS19A
Target Stratum	Made Ground / Glacial Till / W Bedrock	Glacial Till	Glacial Till	Made Ground	Glacial Till	Glacial Till	Made Ground	Glacial Till
Ground Level (mOD)	63.10	61.51	61.68	59.47	61.68	59.28	59.46	59.95
Groundwater Depth (mbgl)	0.82	Dry	2.08	0.40	1.32	0.53	0.88	Dry
Groundwater Level (mOD)	62.28	Dry	59.60	59.07	60.36	58.75	58.58	Dry
Base of Well (mbgl)	3.01	2.46	2.89	1.40	2.34	2.80	1.63	1.65
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condition of Well	Good	Good	Good	Good	Good	Good	Good	Good
Top of Response Zone (mbgl)	1.50	1.00	1.00	0.50	1.00	1.00	0.80	0.80
Base of Response Zone (mbgl)	3.00	2.70	2.80	1.40	2.60	3.00	1.50	1.80
Top of Response Zone (mOD)	61.60	60.51	60.68	58.97	60.68	58.28	58.66	59.15
Base of Response Zone (mOD)	60.10	58.81	58.88	58.07	59.08	56.28	57.96	58.15
Hydrocarbon Sheen Observed?	Slight	-	No	No	No	No	No	-
Thickness of Free Product (m)	-	-	-	-	-	-	-	-

Groundwater Sampling Details								
Purge Method	Bailer	-	Bailer	Bailer	Bailer	Bailer	Bailer	-
Purged Volume	4.1	-	1.5	1.9	1.9	4.3	1.4	-
Recharge (Good / Poor)	Good	-	Poor	Poor	Poor	Good	Poor	-
Sampling Method	Bailer	-	Bailer	Bailer	Bailer	Bailer	Bailer	-
Volume of Water Sampled (ltrs)	2J + 2V	-	2J + 2V	2J + 2V	2J + 2V	2J + 2V	2J + 2V	-
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	-
Colour / Odours Noted	Light brown slightly silty water. No odour.	-	Brown silty water. No odour.	Brown becoming dark grey silty water. No odour.	Brown very silty water. No odour.	Brown silty water. No odour.	Light brown silty water. No odour.	-
In-situ pH	7.61	-	7.87	7.87	7.77	6.97	7.16	-
In-situ Temperature (°C)	18.10	-	15.90	16.50	17.20	18.60	18.10	-
In-situ Dissolved Oxygen (%)	5.70	-	13.00	12.00	15.40	9.60	9.00	-
In-situ Electrical Conductivity (µS/cm)	1.04	-	1.58	2.13	0.42	0.93	1.62	-
In-situ Total Dissolved Solids (ppt)	0.53	-	0.81	1.09	0.20	0.47	0.82	-

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	16 & 17 September 2025	Time of Visit:	08:00 - 17:30

State of Ground:

Dry

Damp

Wet

Saturated

Wind Strength:

Calm

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

Cloudy

Overcast

Precipitation Level:

None

Slight

Moderate

Heavy

Borehole Reference	WS20	WS21	WS23	WS24	WS25	WS26	WS27	
Target Stratum	Made Ground	Glacial Till / W Bedrock	Made Ground	Made Ground / Glacial Till	Made Ground	Made Ground	Glacial Till / W Bedrock	
Ground Level (mOD)	59.90	58.70	58.37	59.84	59.90	59.78	58.41	
Groundwater Depth (mbgl)	0.48	1.46	Dry	1.39	0.80	Dry	1.34	
Groundwater Level (mOD)	59.42	57.24	Dry	58.45	59.10	Dry	57.07	
Base of Well (mbgl)	1.06	2.46	0.99	1.89	1.01	1.02	2.42	
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Condition of Well	Good	Good	Good	Good	Good	Good	Good	
Top of Response Zone (mbgl)	0.50	1.50	0.50	1.00	0.50	0.50	1.50	
Base of Response Zone (mbgl)	1.00	2.50	1.00	2.00	1.00	1.00	2.50	
Top of Response Zone (mOD)	59.40	57.20	57.87	58.84	59.40	59.28	56.91	
Base of Response Zone (mOD)	58.90	56.20	57.37	57.84	58.90	58.78	55.91	
Hydrocarbon Sheen Observed?	No	No	-	No	No	-	No	
Thickness of Free Product (m)	-	-	-	-	-	-	-	

Groundwater Sampling Details								
Purge Method	Bailer	Bailer	-	Bailer	Bailer	-	Bailer	
Purged Volume	1.1	1.8	-	0.9	-	-	2	
Recharge (Good / Poor)	Good	Poor	-	Poor	Poor	-	Poor	
Sampling Method	Bailer	Bailer	-	Bailer	Bailer	-	Bailer	
Volume of Water Sampled (ltrs)	2J + 2V	2J + 2V	-	1J + 2V	2J + 2V	-	2J + 2V	
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	
Colour / Odours Noted	Light brown silty water. No odour.	Light brown silty water. No odour.	-	Greyish brown silty water. No odour.	Light greyish brown, slightly cloudy water. No odour.	-	Brown silty water. No odour.	
In-situ pH	8.66	7.80	-	7.01	7.30	-	7.52	
In-situ Temperature (°C)	16.40	19.00	-	16.40	17.80	-	18.50	
In-situ Dissolved Oxygen (%)	7.40	10.40	-	6.60	14.90	-	10.70	
In-situ Electrical Conductivity (µS/cm)	1.89	2.59	-	0.67	0.62	-	2.42	
In-situ Total Dissolved Solids (ppt)	0.93	1.30	-	0.33	0.31	-	1.21	

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

State of Ground:

Dry

X

Damp

Wet

Saturated

Wind Strength:

Calm

X

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

X

Cloudy

Overcast

Precipitation Level:

None

X

Slight

Moderate

Heavy

Borehole Reference	RC01	RC02	RC03	RC05	RC06	WS01	WS02A	WS04
Target Stratum	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Made Ground	Glacial Till	Made Ground
Ground Level (mOD)	58.50	58.92	59.71	59.87	58.68	62.86	62.70	62.13
Groundwater Depth (mbgl)	1.46	2.03	2.77	2.10	2.14	0.57	1.08	0.48
Groundwater Level (mOD)	57.04	56.89	56.94	57.77	56.54	62.29	61.62	61.65
Base of Well (mbgl)	14.38	14.39	13.87	14.57	14.65	1.38	1.90	1.33
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condition of Well	Good	Good	Good	Good	Good	Good	Good	Good
Top of Response Zone (mbgl)	3.00	3.00	2.00	3.00	3.00	0.50	1.00	0.50
Base of Response Zone (mbgl)	15.00	15.00	14.00	15.00	15.00	1.20	2.00	1.00
Top of Response Zone (mOD)	55.50	55.92	57.71	56.87	55.68	62.36	61.70	61.63
Base of Response Zone (mOD)	43.50	43.92	45.71	44.87	43.68	61.66	60.70	61.13
Hydrocarbon Sheen Observed?	-	-	-	-	-	-	-	-
Thickness of Free Product (m)	-	-	-	-	-	-	-	-

Groundwater Sampling Details								
Purge Method	-	-	-	-	-	-	-	-
Purged Volume	-	-	-	-	-	-	-	-
Recharge (Good / Poor)	-	-	-	-	-	-	-	-
Sampling Method	-	-	-	-	-	-	-	-
Volume of Water Sampled (ltrs)	-	-	-	-	-	-	-	-
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	-
Colour / Odours Noted	-	-	-	-	-	-	-	-
In-situ pH	-	-	-	-	-	-	-	-
In-situ Temperature (°C)	-	-	-	-	-	-	-	-
In-situ Dissolved Oxygen (%)	-	-	-	-	-	-	-	-
In-situ Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
In-situ Total Dissolved Solids (ppt)	-	-	-	-	-	-	-	-

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

State of Ground:

Dry

X

Damp

Wet

Saturated

Wind Strength:

Calm

X

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

X

Cloudy

Overcast

Precipitation Level:

None

X

Slight

Moderate

Heavy

Borehole Reference	WS05	WS07	WS08	WS13	WS15	WS17	WS18	WS19A
Target Stratum	Made Ground / Glacial Till / W Bedrock	Glacial Till	Glacial Till	Made Ground	Glacial Till	Glacial Till	Made Ground	Glacial Till
Ground Level (mOD)	63.10	61.51	61.68	59.47	61.68	59.28	59.46	59.95
Groundwater Depth (mbgl)	0.88	Dry	1.81	0.96	1.98	1.69	1.21	Dry
Groundwater Level (mOD)	62.22	Dry	59.87	58.51	59.70	57.59	58.25	Dry
Base of Well (mbgl)	3.01	2.46	2.87	1.40	2.32	2.80	1.63	1.65
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condition of Well	Good	Good	Good	Good	Good	Good	Good	Good
Top of Response Zone (mbgl)	1.50	1.00	1.00	0.50	1.00	1.00	0.80	0.80
Base of Response Zone (mbgl)	3.00	2.70	2.80	1.40	2.60	3.00	1.50	1.80
Top of Response Zone (mOD)	61.60	60.51	60.68	58.97	60.68	58.28	58.66	59.15
Base of Response Zone (mOD)	60.10	58.81	58.88	58.07	59.08	56.28	57.96	58.15
Hydrocarbon Sheen Observed?	-	-	-	-	-	-	-	-
Thickness of Free Product (m)	-	-	-	-	-	-	-	-

Groundwater Sampling Details								
Purge Method	-	-	-	-	-	-	-	-
Purged Volume	-	-	-	-	-	-	-	-
Recharge (Good / Poor)	-	-	-	-	-	-	-	-
Sampling Method	-	-	-	-	-	-	-	-
Volume of Water Sampled (ltrs)	-	-	-	-	-	-	-	-
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	-
Colour / Odours Noted	-	-	-	-	-	-	-	-
In-situ pH	-	-	-	-	-	-	-	-
In-situ Temperature (°C)	-	-	-	-	-	-	-	-
In-situ Dissolved Oxygen (%)	-	-	-	-	-	-	-	-
In-situ Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
In-situ Total Dissolved Solids (ppt)	-	-	-	-	-	-	-	-

Notes:

Groundwater Monitoring Record

Project Name:	Wythenshawe	Client:	Muse
Project Reference:	51143/01	Engineer:	AP
Date of Visit:	30 September 2025	Time of Visit:	07:30 - 16:30

State of Ground:

Dry

X

Damp

Wet

Saturated

Wind Strength:

Calm

X

Light

Moderate

Strong

Cloud Cover:

Clear

Slight

X

Cloudy

Overcast

Precipitation Level:

None

X

Slight

Moderate

Heavy

Borehole Reference	WS20	WS21	WS23	WS24	WS25	WS26	WS27	
Target Stratum	Made Ground	Glacial Till / W Bedrock	Made Ground	Made Ground / Glacial Till	Made Ground	Made Ground	Glacial Till / W Bedrock	
Ground Level (mOD)	59.90	58.70	58.37	59.84	59.90	59.78	58.41	
Groundwater Depth (mbgl)	0.51	1.47	Dry	0.94	Dry	Dry	1.25	
Groundwater Level (mOD)	59.39	57.23	Dry	58.90	Dry	Dry	57.16	
Base of Well (mbgl)	1.06	2.46	0.99	1.90	1.04	1.03	2.41	
Diameter of Well (m)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Condition of Well	Good	Good	Good	Good	Good	Good	Good	
Top of Response Zone (mbgl)	0.50	1.50	0.50	1.00	0.50	0.50	1.50	
Base of Response Zone (mbgl)	1.00	2.50	1.00	2.00	1.00	1.00	2.50	
Top of Response Zone (mOD)	59.40	57.20	57.87	58.84	59.40	59.28	56.91	
Base of Response Zone (mOD)	58.90	56.20	57.37	57.84	58.90	58.78	55.91	
Hydrocarbon Sheen Observed?	-	-	-	-	-	-	-	
Thickness of Free Product (m)	-	-	-	-	-	-	-	

Groundwater Sampling Details								
Purge Method	-	-	-	-	-	-	-	
Purged Volume	-	-	-	-	-	-	-	
Recharge (Good / Poor)	-	-	-	-	-	-	-	
Sampling Method	-	-	-	-	-	-	-	
Volume of Water Sampled (ltrs)	-	-	-	-	-	-	-	
Volume of Free Product Sampled (ltrs)	-	-	-	-	-	-	-	
Colour / Odours Noted	-	-	-	-	-	-	-	
In-situ pH	-	-	-	-	-	-	-	
In-situ Temperature (°C)	-	-	-	-	-	-	-	
In-situ Dissolved Oxygen (%)	-	-	-	-	-	-	-	
In-situ Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	
In-situ Total Dissolved Solids (ppt)	-	-	-	-	-	-	-	

Notes:

Appendix D – Chemical Soil Laboratory Analysis Results

Civic Earth Limited
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M1 2HG

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Analytical Report Number : 25-049318

Project / Site name:	Wythenshawe	Samples received on:	12/09/2025
Your job number:	51143-01	Samples instructed on/ Analysis started on:	12/09/2025
Your order number:	PO-0343	Analysis completed by:	23/09/2025
Report Issue Number:	1	Report issued on:	23/09/2025
Samples Analysed:	9 10:1 WAC samples		



Signed:

Anna Goc
PL Head of Reporting Team
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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-049318

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	680905	680906	680907	680908	680909
Sample Reference	WS08	WS25	WS19A	WS20	WS21
Sample Number	1	1	1	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.20	0.50	0.70	0.25
Date Sampled	18/08/2025	11/08/2025	06/08/2025	06/08/2025	12/08/2025
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	64	50.9	< 0.1	36.4	31.5
Moisture Content	%	0.01	NONE	4.8	1.5	15	9.5	4.6
Total mass of sample received	kg	0.1	NONE	2	2	2	2	2

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8	8.1	8.1	8.9	8.2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	1.4	1.2	0.4	0.5
Loss on Ignition @ 450°C	%	0.2	MCERTS	1.6	2.4	4.4	1.4	1.4
Acid Neutralisation Capacity	mmol/kg	-9999	NONE	13	24	12	34	28

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	0.23	0.06	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	0.11	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	0.07	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	0.74	0.22	0.09
Anthracene	mg/kg	0.05	MCERTS	-	-	0.2	0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	2.3	0.37	0.14
Pyrene	mg/kg	0.05	MCERTS	-	-	2.1	0.39	0.15
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	1.4	0.21	0.07
Chrysene	mg/kg	0.05	MCERTS	-	-	1.4	0.19	0.12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	1.8	0.25	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.62	0.12	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	1.3	0.21	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	0.73	0.11	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	0.16	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	0.82	0.15	< 0.05
Coronene	mg/kg	0.05	NONE	-	-	0.19	0.07	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	-	-	14	2.41	< 0.85
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Petroleum Hydrocarbons

Mineral Oil (EC10 - EC40) EH_CU_1D_AL	mg/kg	10	NONE	-	-	< 10	< 10	78
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VOCs

Benzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	-	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	< 5.0

Total BTEX	µg/kg	10	MCERTS	-	-	< 10	< 10	< 10
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Analytical Report Number: 25-049318

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	680905	680906	680907	680908	680909
Sample Reference	WS08	WS25	WS19A	WS20	WS21
Sample Number	1	1	1	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.20	0.50	0.70	0.25
Date Sampled	18/08/2025	11/08/2025	06/08/2025	06/08/2025	12/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	-	-	< 0.007	< 0.007	< 0.007

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

Analytical Report Number: 25-049318

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	680910	680911	680912	680913
Sample Reference	WS25	TP02	TP09	RC02
Sample Number	3	1	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.20	0.60	0.30
Date Sampled	11/08/2025	14/08/2025	19/08/2025	19/08/2025
Time Taken	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	46.6	< 0.1	46.6	87.1
Moisture Content	%	0.01	NONE	7.8	5.8	3.8	1.7
Total mass of sample received	kg	0.1	NONE	2	2	1.3	2

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8.4	8.1	9.5	8.5
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.5	0.2	0.2	0.2
Loss on Ignition @ 450°C	%	0.2	MCERTS	1.1	0.6	0.5	1.1
Acid Neutralisation Capacity	mmol/kg	-9999	NONE	21	16	73	28

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.15	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.87	< 0.05	< 0.05	0.24
Anthracene	mg/kg	0.05	MCERTS	0.24	< 0.05	< 0.05	0.1
Fluoranthene	mg/kg	0.05	MCERTS	0.79	0.08	0.07	1.1
Pyrene	mg/kg	0.05	MCERTS	1.3	0.09	0.08	0.91
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.63	< 0.05	< 0.05	0.43
Chrysene	mg/kg	0.05	MCERTS	0.97	< 0.05	< 0.05	0.44
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.36	< 0.05	< 0.05	0.46
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.17	< 0.05	< 0.05	0.18
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.43	< 0.05	< 0.05	0.41
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	0.16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.14	< 0.05	< 0.05	0.18
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	6.2	< 0.85	< 0.85	4.56
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Petroleum Hydrocarbons

Mineral Oil (EC10 - EC40) EH_CU_1D_AL	mg/kg	10	NONE	150	< 10	< 10	35
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VOCs

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

Total BTEX	µg/kg	10	MCERTS	< 10	< 10	< 10	< 10
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Analytical Report Number: 25-049318

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	680910	680911	680912	680913
Sample Reference	WS25	TP02	TP09	RC02
Sample Number	3	1	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.20	0.60	0.30
Date Sampled	11/08/2025	14/08/2025	19/08/2025	19/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007	< 0.007	< 0.007

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

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Waste Acceptance Criteria Analytical Results

Report No:	25-049318						
					Client: Civic Earth Limited		
Location	Wythenshawe						
Lab Reference (Sample Number)	680905				Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date	18/08/2025				Inert Waste Landfill	Stable Non- reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS08 1						
Depth (m)	0.20						
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	1.6				--	--	10%
BTEX (µg/kg) **	-				6000	--	--
Sum of PCBs (mg/kg) **	-				1	--	--
Mineral Oil (mg/kg) EH, 10, CU, AL	-				500	--	--
Total PAH (WAC-17) (mg/kg)	-				100	--	--
pH (units)**	8				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	13				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
	(BS EN 12457 - 2 preparation utilising end over end leaching procedure)				using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0185			0.185	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	< 0.00040			< 0.0040	0.5	10	70
Copper *	0.02			0.2	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.00346			0.0346	0.5	10	30
Nickel *	0.0074			0.074	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.081			0.81	4	50	200
Chloride *	1			10	800	15000	25000
Fluoride*	0.28			2.8	10	150	500
Sulphate *	26			260	1000	20000	50000
TDS*	66			660	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	6.69			66.9	500	800	1000
Leach Test Information							
Stone Content (%)	64						
Sample Mass (kg)	2						
Dry Matter (%)	95						
Moisture (%)	4.8						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					* = UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							

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Waste Acceptance Criteria Analytical Results

Report No:	25-049318					
				Client: Civic Earth Limited		
Location	Wythenshawe					
Lab Reference (Sample Number)	680906			Landfill Waste Acceptance Criteria		
Sampling Date	11/08/2025			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS25 1					
Depth (m)	0.20					
Solid Waste Analysis						
TOC (%)**	1.4			3%	5%	6%
Loss on Ignition (%) **	2.4			--	--	10%
BTEX (µg/kg) **	-			6000	--	--
Sum of PCBs (mg/kg) **	-			1	--	--
Mineral Oil (mg/kg) EH_10_CU_AL	-			500	--	--
Total PAH (WAC-17) (mg/kg)	-			100	--	--
pH (units)**	8.1			--	>6	--
Acid Neutralisation Capacity (mmol / kg)	24			--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1		10:1	Limit values for compliance leaching test		
	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.00165		0.0165	0.5	2	25
Barium *	0.0205		0.205	20	100	300
Cadmium *	< 0.000100		< 0.00100	0.04	1	5
Chromium *	< 0.00040		< 0.0040	0.5	10	70
Copper *	0.0069		0.069	2	50	100
Mercury *	< 0.000500		< 0.00500	0.01	0.2	2
Molybdenum *	0.00105		0.0105	0.5	10	30
Nickel *	0.00088		0.0088	0.4	10	40
Lead *	0.0011		0.011	0.5	10	50
Antimony *	< 0.0017		< 0.017	0.06	0.7	5
Selenium *	< 0.0040		< 0.040	0.1	0.5	7
Zinc *	0.0073		0.073	4	50	200
Chloride *	2.7		27	800	15000	25000
Fluoride*	0.097		0.97	10	150	500
Sulphate *	3.2		32	1000	20000	50000
TDS*	39		390	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-
DOC	7.1		71	500	800	1000
Leach Test Information						
Stone Content (%)	50.9					
Sample Mass (kg)	2					
Dry Matter (%)	99					
Moisture (%)	1.5					
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				*= UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited		

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results

Report No:	25-049318					
				Client: Civic Earth Limited		
Location	Wythenshawe					
Lab Reference (Sample Number)	680907			Landfill Waste Acceptance Criteria		
Sampling Date	06/08/2025			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS19A 1					
Depth (m)	0.50					
Solid Waste Analysis						
TOC (%)**	1.2			3%	5%	6%
Loss on Ignition (%) **	4.4			--	--	10%
BTEX (µg/kg) **	< 10			6000	--	--
Sum of PCBs (mg/kg) **	< 0.007			1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL	< 10			500	--	--
Total PAH (WAC-17) (mg/kg)	14			100	--	--
pH (units)**	8.1			--	>6	--
Acid Neutralisation Capacity (mmol / kg)	12			--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1		10:1	Limit values for compliance leaching test		
	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.009		0.09	0.5	2	25
Barium *	0.0116		0.116	20	100	300
Cadmium *	< 0.000100		< 0.00100	0.04	1	5
Chromium *	< 0.00040		< 0.0040	0.5	10	70
Copper *	0.015		0.15	2	50	100
Mercury *	< 0.000500		< 0.00500	0.01	0.2	2
Molybdenum *	0.00377		0.0377	0.5	10	30
Nickel *	0.001		0.01	0.4	10	40
Lead *	< 0.0010		< 0.010	0.5	10	50
Antimony *	< 0.0017		< 0.017	0.06	0.7	5
Selenium *	< 0.0040		< 0.040	0.1	0.5	7
Zinc *	0.0022		0.022	4	50	200
Chloride *	28		280	800	15000	25000
Fluoride*	0.65		6.5	10	150	500
Sulphate *	24		240	1000	20000	50000
TDS*	110		1100	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-
DOC	4.26		42.6	500	800	1000
Leach Test Information						
Stone Content (%)	< 0.1					
Sample Mass (kg)	2					
Dry Matter (%)	85					
Moisture (%)	15					
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited		

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



4041



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Waste Acceptance Criteria Analytical Results

Report No:	25-049318						
					Client: Civic Earth Limited		
Location	Wythenshawe						
Lab Reference (Sample Number)	680908				Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date	06/08/2025				Inert Waste Landfill	Stable Non- reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS20 1						
Depth (m)	0.70						
Solid Waste Analysis							
TOC (%)**	0.4				3%	5%	6%
Loss on Ignition (%) **	1.4				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	2.41				100	--	--
pH (units)**	8.9				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	34				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
	(BS EN 12457 - 2 preparation utilising end over end leaching procedure)				using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	0.00167			0.0167	0.5	2	25
Barium *	0.0111			0.111	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.0016			0.016	0.5	10	70
Copper *	0.0058			0.058	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.000822			0.00822	0.5	10	30
Nickel *	0.00036			0.0036	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.00061			0.0061	4	50	200
Chloride *	1.8			18	800	15000	25000
Fluoride*	0.4			4	10	150	500
Sulphate *	26			260	1000	20000	50000
TDS*	74			740	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	5.51			55.1	500	800	1000
Leach Test Information							
Stone Content (%)	36.4						
Sample Mass (kg)	2						
Dry Matter (%)	91						
Moisture (%)	9.5						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
* = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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Waste Acceptance Criteria Analytical Results

Report No:		25-049318					
					Client: Civic Earth Limited		
Location		Wythenshawe					
Lab Reference (Sample Number)		680909			Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date		12/08/2025			Inert Waste Landfill	Stable Non- reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID		WS21 1					
Depth (m)		0.25					
Solid Waste Analysis							
TOC (%)**		0.5			3%	5%	6%
Loss on Ignition (%) **		1.4			--	--	10%
BTEX (µg/kg) **		< 10			6000	--	--
Sum of PCBs (mg/kg) **		< 0.007			1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL		78			500	--	--
Total PAH (WAC-17) (mg/kg)		< 0.85			100	--	--
pH (units)**		8.2			--	>6	--
Acid Neutralisation Capacity (mmol / kg)		28			--	To be evaluated	To be evaluated
Eluate Analysis		10:1		10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)		mg/l			using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
		mg/kg					
Arsenic *		0.0013		0.013	0.5	2	25
Barium *		0.0288		0.288	20	100	300
Cadmium *		< 0.000100		< 0.00100	0.04	1	5
Chromium *		< 0.00040		< 0.0040	0.5	10	70
Copper *		0.0059		0.059	2	50	100
Mercury *		< 0.000500		< 0.00500	0.01	0.2	2
Molybdenum *		0.00054		0.0054	0.5	10	30
Nickel *		< 0.00030		< 0.0030	0.4	10	40
Lead *		< 0.0010		< 0.010	0.5	10	50
Antimony *		< 0.0017		< 0.017	0.06	0.7	5
Selenium *		< 0.0040		< 0.040	0.1	0.5	7
Zinc *		0.0022		0.022	4	50	200
Chloride *		1.7		17	800	15000	25000
Fluoride*		0.11		1.1	10	150	500
Sulphate *		3.4		34	1000	20000	50000
TDS*		34		340	4000	60000	100000
Phenol Index (Monohydric Phenols) *		< 0.010		< 0.10	1	-	-
DOC		5.58		55.8	500	800	1000
Leach Test Information							
Stone Content (%)		31.5					
Sample Mass (kg)		2					
Dry Matter (%)		95					
Moisture (%)		4.6					
						</	



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The results included within the report are representative of the samples submitted for analysis.

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Waste Acceptance Criteria Analytical Results

Report No:	25-049318					
				Client: Civic Earth Limited		
Location	Wythenshawe					
Lab Reference (Sample Number)	680911			Landfill Waste Acceptance Criteria		
				Limits		
Sampling Date	14/08/2025			Inert Waste Landfill	Stable Non- reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID	TP02 1					
Depth (m)	0.20					
Solid Waste Analysis						
TOC (%)**	0.2			3%	5%	6%
Loss on Ignition (%) **	0.6			--	--	10%
BTEX (µg/kg) **	< 10			6000	--	--
Sum of PCBs (mg/kg) **	< 0.007			1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL	< 10			500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85			100	--	--
pH (units)**	8.1			--	>6	--
Acid Neutralisation Capacity (mmol / kg)	16			--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test	
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)	
Arsenic *	0.0022			0.022	0.5	2
Barium *	0.0236			0.236	20	100
Cadmium *	< 0.000100			< 0.00100	0.04	1
Chromium *	< 0.00040			< 0.0040	0.5	10
Copper *	0.016			0.16	2	50
Mercury *	< 0.000500			< 0.00500	0.01	0.2
Molybdenum *	< 0.000400			< 0.00400	0.5	10
Nickel *	< 0.00030			< 0.0030	0.4	10
Lead *	< 0.0010			< 0.010	0.5	10
Antimony *	< 0.0017			< 0.017	0.06	0.7
Selenium *	< 0.0040			< 0.040	0.1	0.5
Zinc *	0.0031			0.031	4	50
Chloride *	0.98			9.8	800	15000
Fluoride*	0.27			2.7	10	150
Sulphate *	2.5			25	1000	20000
TDS*	41			410	4000	60000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-
DOC	5.96			59.6	500	800
Leach Test Information						
Stone Content (%)	< 0.1					
Sample Mass (kg)	2					
Dry Matter (%)	94					
Moisture (%)	5.8					
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited		
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.						



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Analytical Report Number : 25-049318

Project / Site name: Wythenshawe

* 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 *
680905	WS08	1	0.2	Brown loam and clay with gravel and stones
680906	WS25	1	0.2	Brown loam and sand with stones
680907	WS19A	1	0.5	Brown loam and gravel
680908	WS20	1	0.7	Brown loam and clay with stones
680909	WS21	1	0.25	Brown clay and sand with stones
680910	WS25	3	1.1	Brown clay and sand with vegetation and stones
680911	TP02	1	0.2	Brown sand with gravel
680912	TP09	1	0.6	Brown clay and sand with gravel and stones
680913	RC02	1	0.3	Brown loam and clay with gravel and stones

Analytical Report Number : 25-049318

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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 at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
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
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
One stage WAC 10:1 leachate preparation	One stage batch test at a liquid to solid ratio of 10 L/kg	BS EN 12457-2-2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
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

Analytical Report Number : 25-049318

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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 by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	NONE

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 30oC.

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.

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

The result for sum should be interpreted with caution

Analytical Report Number : 25-049318

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
RC02	1	S	680913	c	BTEX and/or Volatile organic compounds in soil	L073B	c
RC02	1	S	680913	c	Loss on ignition of soil @ 450°C	L047-PL	c
RC02	1	S	680913	c	PCB's By GC-MS in soil	L027B	c
RC02	1	S	680913	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
RC02	1	S	680913	c	Total organic carbon (Automated) in soil	L009B	c
RC02	1	S	680913	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
RC02	1	S	680913	c	pH at 20°C in soil	L005B	c
TP02	1	S	680911	c	BTEX and/or Volatile organic compounds in soil	L073B	c
TP02	1	S	680911	c	Loss on ignition of soil @ 450°C	L047-PL	c
TP02	1	S	680911	c	PCB's By GC-MS in soil	L027B	c
TP02	1	S	680911	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
TP02	1	S	680911	c	Total organic carbon (Automated) in soil	L009B	c
TP02	1	S	680911	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
TP02	1	S	680911	c	pH at 20°C in soil	L005B	c
TP09	1	L	680912	bc	One stage WAC 10:1 leachate preparation	L043B	b
TP09	1	S	680912	bc	BTEX and/or Volatile organic compounds in soil	L073B	c
TP09	1	S	680912	bc	Loss on ignition of soil @ 450°C	L047-PL	c
TP09	1	S	680912	bc	PCB's By GC-MS in soil	L027B	c
TP09	1	S	680912	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
TP09	1	S	680912	bc	Total organic carbon (Automated) in soil	L009B	c
TP09	1	S	680912	bc	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
TP09	1	S	680912	bc	pH at 20°C in soil	L005B	c
WS08	1	S	680905	c	Loss on ignition of soil @ 450°C	L047-PL	c
WS08	1	S	680905	c	Total organic carbon (Automated) in soil	L009B	c
WS08	1	S	680905	c	pH at 20°C in soil	L005B	c
WS19A	1	S	680907	c	BTEX and/or Volatile organic compounds in soil	L073B	c
WS19A	1	S	680907	c	Loss on ignition of soil @ 450°C	L047-PL	c
WS19A	1	S	680907	c	PCB's By GC-MS in soil	L027B	c
WS19A	1	S	680907	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS19A	1	S	680907	c	Total organic carbon (Automated) in soil	L009B	c
WS19A	1	S	680907	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
WS19A	1	S	680907	c	pH at 20°C in soil	L005B	c
WS20	1	S	680908	c	BTEX and/or Volatile organic compounds in soil	L073B	c
WS20	1	S	680908	c	Loss on ignition of soil @ 450°C	L047-PL	c
WS20	1	S	680908	c	PCB's By GC-MS in soil	L027B	c
WS20	1	S	680908	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS20	1	S	680908	c	Total organic carbon (Automated) in soil	L009B	c
WS20	1	S	680908	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
WS20	1	S	680908	c	pH at 20°C in soil	L005B	c
WS21	1	S	680909	c	BTEX and/or Volatile organic compounds in soil	L073B	c
WS21	1	S	680909	c	Loss on ignition of soil @ 450°C	L047-PL	c
WS21	1	S	680909	c	PCB's By GC-MS in soil	L027B	c
WS21	1	S	680909	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS21	1	S	680909	c	Total organic carbon (Automated) in soil	L009B	c
WS21	1	S	680909	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
WS21	1	S	680909	c	pH at 20°C in soil	L005B	c
WS25	1	S	680906	c	Loss on ignition of soil @ 450°C	L047-PL	c
WS25	1	S	680906	c	Total organic carbon (Automated) in soil	L009B	c
WS25	1	S	680906	c	pH at 20°C in soil	L005B	c
WS25	3	S	680910	c	BTEX and/or Volatile organic compounds in soil	L073B	c
WS25	3	S	680910	c	Loss on ignition of soil @ 450°C	L047-PL	c
WS25	3	S	680910	c	PCB's By GC-MS in soil	L027B	c
WS25	3	S	680910	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS25	3	S	680910	c	Total organic carbon (Automated) in soil	L009B	c
WS25	3	S	680910	c	Total petroleum hydrocarbons by GC-FID in soil	L076B	c
WS25	3	S	680910	c	pH at 20°C in soil	L005B	c

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Analytical Report Number : 25-042855

Replaces Analytical Report Number: 25-042855, issue no. 1

Client references/information amended.

Asbestos Quantification added to sample 645490 as per client's request.

Project / Site name:	Wythenshawe	Samples received on:	11/08/2025
Your job number:	51143	Samples instructed on/ Analysis started on:	11/08/2025
Your order number:	PO-0343	Analysis completed by:	05/09/2025
Report Issue Number:	2	Report issued on:	10/09/2025
Samples Analysed:	19 soil samples - 2 leachate samples		



Signed:

Rachel Chappell
Key Account Manager
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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645490	645491	645492	645493	645494
Sample Reference	WS01	WS01	WS02A	WS03	WS03
Sample Number	1	2	1	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	1.00	0.60	0.25	0.52
Date Sampled	05/08/2025	05/08/2025	05/08/2025	04/08/2025	04/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	21	20	18	13	16
Total mass of sample received	kg	0.1	NONE	2	2	2	0.2	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC	KMC	KMC	PKU	KMC
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025	19/08/2025	18/08/2025	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	-	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	-	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	7.8	8	7.9	8.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2100	580	480	270	270
Organic Matter (automated)	%	0.1	MCERTS	4.9	2.9	0.4	1	0.7

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645490	645491	645492	645493	645494
Sample Reference	WS01	WS01	WS02A	WS03	WS03
Sample Number	1	2	1	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	1.00	0.60	0.25	0.52
Date Sampled	05/08/2025	05/08/2025	05/08/2025	04/08/2025	04/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.19	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.39	0.24	0.12	< 0.05	0.09
Anthracene	mg/kg	0.05	MCERTS	0.09	0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.98	0.66	0.15	0.11	0.2
Pyrene	mg/kg	0.05	MCERTS	0.96	0.64	0.14	0.1	0.21
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.58	0.35	< 0.05	0.07	0.11
Chrysene	mg/kg	0.05	MCERTS	0.65	0.41	0.06	0.05	0.12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.77	0.71	< 0.05	0.1	0.19
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.32	0.18	< 0.05	< 0.05	0.06
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.56	0.46	0.07	< 0.05	0.12
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.26	0.25	< 0.05	< 0.05	0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.29	0.26	< 0.05	< 0.05	0.08
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	6.05	4.23	< 0.85	< 0.85	1.22
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Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	7.8	4.9	2.9	< 1.0	1.8
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	27	12	11	4.3	5.2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	930	130	140	76	110
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	1.1	1.2	0.35	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	1.9	1	0.3	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	0.3	< 0.2	0.4	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	U/S ^{*U/S g}	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	23	U/S	33	9.5	31
Chromium (VI) by IC	mg/kg	1.8	NONE	-	< 1.80	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	31	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	31	33	9.5	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	130	55	16	19	37
Lead (aqua regia extractable)	mg/kg	1	MCERTS	160	71	62	18	14
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.6	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	38	24	29	9.1	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	50	34	40	11	25
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	150	100	64	38	65

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Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645490	645491	645492	645493	645494
Sample Reference	WS01	WS01	WS02A	WS03	WS03
Sample Number	1	2	1	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	1.00	0.60	0.25	0.52
Date Sampled	05/08/2025	05/08/2025	05/08/2025	04/08/2025	04/08/2025
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_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	18	< 8.0	12	19
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	< 10	18	< 10	12	38

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	16	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	< 10	16	< 10	< 10	< 10

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	-	-
Chloroform	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number				645490	645491	645492	645493	645494
Sample Reference				WS01	WS01	WS02A	WS03	WS03
Sample Number				1	2	1	1	2
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.40	1.00	0.60	0.25	0.52
Date Sampled				05/08/2025	05/08/2025	05/08/2025	04/08/2025	04/08/2025
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	MCERTS	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	-	-
Bromoform	µg/kg	5	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-042855

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	645490	645491	645492	645493	645494
Sample Reference	WS01	WS01	WS02A	WS03	WS03
Sample Number	1	2	1	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	1.00	0.60	0.25	0.52
Date Sampled	05/08/2025	05/08/2025	05/08/2025	04/08/2025	04/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
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Analytical Report Number: 25-042855
 Project / Site name: Wythenshawe
 Your Order No: PO-0343

Lab Sample Number	645490	645491	645492	645493	645494
Sample Reference	WS01	WS01	WS02A	WS03	WS03
Sample Number	1	2	1	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	1.00	0.60	0.25	0.52
Date Sampled	05/08/2025	05/08/2025	05/08/2025	04/08/2025	04/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-
Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645495	645496	645497	645498	645499
Sample Reference	WS03A	WS04	WS04	WS12	WS13
Sample Number	1	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.30	0.60	0.10	0.60
Date Sampled	04/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
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	< 0.1	77	< 0.1	< 0.1	38.5
Moisture Content	%	0.01	NONE	14	3.7	11	7.5	3.1
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.8	2	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC	KMC	-	KMC	KMC
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025	-	19/08/2025	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.7	8.5	8.8	8.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	370	410	270	640	840
Organic Matter (automated)	%	0.1	MCERTS	0.7	0.3	0.5	0.3	0.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645495	645496	645497	645498	645499
Sample Reference	WS03A	WS04	WS04	WS12	WS13
Sample Number	1	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.30	0.60	0.10	0.60
Date Sampled	04/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
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Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.6	< 1.0	2.1	< 1.0	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.7	1.2	4.6	2.4	2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	96	370	140	500	920
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.67	0.22	1.3	0.14	0.32
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	< 0.2	0.3	< 0.2	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	1	< 0.2	< 0.2	1
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	25	6	24	4.1	9
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	6	24	4.1	9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	12	19	25	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	11	12	5.6	10	16
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	17	7.2	16	6.5	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.4	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	24	5.2	19	5	8.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49	27	40	8.1	31

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Lab Sample Number	645495	645496	645497	645498	645499
Sample Reference	WS03A	WS04	WS04	WS12	WS13
Sample Number	1	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.30	0.60	0.10	0.60
Date Sampled	04/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
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_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	16	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	23	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	39	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	-	-
Chloroform	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	-	-

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Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number				645495	645496	645497	645498	645499
Sample Reference				WS03A	WS04	WS04	WS12	WS13
Sample Number				1	1	2	1	1
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.50	0.30	0.60	0.10	0.60
Date Sampled				04/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
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	MCERTS	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	-	-
Bromoform	µg/kg	5	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645495	645496	645497	645498	645499
Sample Reference	WS03A	WS04	WS04	WS12	WS13
Sample Number	1	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.30	0.60	0.10	0.60
Date Sampled	04/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
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 Project / Site name: Wythenshawe
 Your Order No: PO-0343

Lab Sample Number	645495	645496	645497	645498	645499
Sample Reference	WS03A	WS04	WS04	WS12	WS13
Sample Number	1	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.30	0.60	0.10	0.60
Date Sampled	04/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-
Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645500	645501	645502	645503	645504
Sample Reference	WS13	WS14	WS14	WS17	WS17
Sample Number	2	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.30	0.40	0.40	0.60
Date Sampled	07/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
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	< 0.1	< 0.1	< 0.1	46.7	< 0.1
Moisture Content	%	0.01	NONE	12	9.8	16	4.2	13
Total mass of sample received	kg	0.1	NONE	2	1	0.8	2	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	KMC	WIK	WIK	WIK	-
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025	19/08/2025	19/08/2025	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.7	8.8	8.2	8.7	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	600	390	390	720	400
Organic Matter (automated)	%	0.1	MCERTS	1.7	0.6	0.4	0.2	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645500	645501	645502	645503	645504
Sample Reference	WS13	WS14	WS14	WS17	WS17
Sample Number	2	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.30	0.40	0.40	0.60
Date Sampled	07/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.12	0.09	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.06	0.06	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.08	0.11	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.06	0.06	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
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Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.6	1.2	2	< 1.0	1.3
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.6	4.4	8.5	1.7	4.1
Barium (aqua regia extractable)	mg/kg	1	MCERTS	66	87	120	460	90
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.66	0.39	1	0.25	0.46
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.3	0.3	0.3	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.4	< 0.2	0.8	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	22	11	28	7.7	21
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	11	28	7.7	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	23	10	13	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	19	20	7.1	13	7.4
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	13	8.3	19	8	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.2	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	25	10	28	6.3	19
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	36	39	58	95	30

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Lab Sample Number	645500	645501	645502	645503	645504
Sample Reference	WS13	WS14	WS14	WS17	WS17
Sample Number	2	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.30	0.40	0.40	0.60
Date Sampled	07/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
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_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	4.5	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	11	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	< 10	16	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	< 5.0	-
Chloroform	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	< 7.0	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	< 6.0	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	< 10	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	< 10	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	< 6.0	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-

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Lab Sample Number				645500	645501	645502	645503	645504
Sample Reference				WS13	WS14	WS14	WS17	WS17
Sample Number				2	1	2	1	2
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.10	0.30	0.40	0.40	0.60
Date Sampled				07/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
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	MCERTS	-	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Bromoform	µg/kg	5	MCERTS	-	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	< 8.0	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-

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Lab Sample Number	645500	645501	645502	645503	645504
Sample Reference	WS13	WS14	WS14	WS17	WS17
Sample Number	2	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.30	0.40	0.40	0.60
Date Sampled	07/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

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	NONE	-	-	-	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	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
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	-	-	-	< 0.2	-
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	-	-	-	< 0.3	-
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	-

PCBs by GC-MS

PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
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 Project / Site name: Wythenshawe
 Your Order No: PO-0343

Lab Sample Number	645500	645501	645502	645503	645504
Sample Reference	WS13	WS14	WS14	WS17	WS17
Sample Number	2	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.30	0.40	0.40	0.60
Date Sampled	07/08/2025	04/08/2025	04/08/2025	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-
Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645505	645506	645507	645508
Sample Reference	WS18	WS18	WS19A	WS20
Sample Number	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.60	1.00	0.50	0.70
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025
Time Taken	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	< 0.1	< 0.1	< 0.1	36.4
Moisture Content	%	0.01	NONE	14	17	15	9.5
Total mass of sample received	kg	0.1	NONE	2	2	2	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WIK	WIK	PDO	PDO
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025	19/08/2025	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.1	9.1	9.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	340	460	1300	1400
Organic Matter (automated)	%	0.1	MCERTS	1.2	1	2.6	1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 25-042855

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	645505	645506	645507	645508
Sample Reference	WS18	WS18	WS19A	WS20
Sample Number	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.60	1.00	0.50	0.70
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.15	0.06
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14	0.34
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.11	0.38
Phenanthrene	mg/kg	0.05	MCERTS	0.14	0.08	0.91	1.3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.21	0.37
Fluoranthene	mg/kg	0.05	MCERTS	0.39	0.11	1.6	1.2
Pyrene	mg/kg	0.05	MCERTS	0.38	0.11	1.4	1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.23	< 0.05	0.95	0.42
Chrysene	mg/kg	0.05	MCERTS	0.25	0.06	1.1	0.49
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.35	0.08	1.2	0.51
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.16	< 0.05	0.41	0.18
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.28	0.05	0.75	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.18	< 0.05	0.48	0.23
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.11	0.06
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.23	< 0.05	0.61	0.3
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	2.59	< 0.85	10.1	7.12
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Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.5	< 1.0	3.3	1.2
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6	5.1	27	4
Barium (aqua regia extractable)	mg/kg	1	MCERTS	190	260	460	100
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.77	0.88	2.9	0.47
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.4	0.6	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	20	23	31	14
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	23	31	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	19	90	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	35	19	20	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	16	41	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	17	19	56	14
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	50	44	45	45

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Lab Sample Number	645505	645506	645507	645508
Sample Reference	WS18	WS18	WS19A	WS20
Sample Number	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.60	1.00	0.50	0.70
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025
Time Taken	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_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	2.4	< 2.0	3.7	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	12	< 8.0	15	23
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	15	< 10	19	23

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	5.2
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	33
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	< 10	< 10	< 10	49

VOCs

Chloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Chloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Bromomethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	< 5.0	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	-	-
Chloroform	µg/kg	5	MCERTS	-	< 5.0	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	< 7.0	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	< 6.0	-	-
Trichloroethene	µg/kg	10	MCERTS	-	< 10	-	-
Dibromomethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	< 10	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	< 6.0	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	< 5.0	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number				645505	645506	645507	645508
Sample Reference				WS18	WS18	WS19A	WS20
Sample Number				1	2	1	1
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.60	1.00	0.50	0.70
Date Sampled				07/08/2025	07/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Tetrachloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	< 5.0	-	-
Bromoform	µg/kg	5	MCERTS	-	< 5.0	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	-	-
Bromobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	< 8.0	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	< 5.0	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	645505	645506	645507	645508
Sample Reference	WS18	WS18	WS19A	WS20
Sample Number	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.60	1.00	0.50	0.70
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

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	NONE	-	< 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	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-
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	-	< 0.2	-	-
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	-	< 0.3	-	-
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	-	-

PCBs by GC-MS

PCB Congener 118	mg/kg	0.001	MCERTS	-	-	< 0.001	-
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Analytical Report Number: 25-042855
 Project / Site name: Wythenshawe
 Your Order No: PO-0343

Lab Sample Number	645505	645506	645507	645508
Sample Reference	WS18	WS18	WS19A	WS20
Sample Number	1	2	1	1
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.60	1.00	0.50	0.70
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	< 0.001	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	< 0.001	-
Total PCBs	mg/kg	0.012	NONE	-	-	< 0.012	-

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



Analytical Report Number: **25-042855**
Project / Site name: **Wythenshawe**
Your Order No: **PO-0343**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
645490	WS01	0.40-	133	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001	05/09/2025	JSW

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

Analytical Report Number: 25-042855
Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number				645499	645506
Sample Reference				WS13	WS18
Sample Number				1	2
Water Matrix				N/A	N/A
Depth (m)				0.60	1.00
Date Sampled				07/08/2025	07/08/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Moisture of sample	%	N/A	NONE	3.3	21
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General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	8	8.2
Total Cyanide (Low Level 1 µg/l)	µg/l	1	NONE	< 1.0	< 1.0
Sulphate as SO ₄	mg/l	0.045	ISO 17025	18.4	51.4
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	5.6	10

Total Phenols

Total Phenols (monohydric) low level	µg/l	1	NONE	1.1	1.3
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Speciated PAHs

Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	NONE	0.1	< 0.01
Fluorene	µg/l	0.01	NONE	0.05	< 0.01
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	NONE	< 0.16	< 0.16
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Analytical Report Number: 25-042855

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	645499	645506
Sample Reference	WS13	WS18
Sample Number	1	2
Water Matrix	N/A	N/A
Depth (m)	0.60	1.00
Date Sampled	07/08/2025	07/08/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Heavy Metals / Metalloids

Antimony (dissolved)	µg/l	1.7	ISO 17025	< 1.7	< 1.7
Arsenic (dissolved)	µg/l	1	ISO 17025	1.2	2.2
Barium (dissolved)	µg/l	0.05	ISO 17025	180	200
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	27	40
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.5	< 0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	8.1	15
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0
Mercury - CV-AFS	µg/l	0.007	ISO 17025	< 0.0070	< 0.0070
Nickel (dissolved)	µg/l	0.3	ISO 17025	0.9	0.6
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	3.8	< 1.7
Zinc (dissolved)	µg/l	0.4	ISO 17025	5.8	12
Calcium (dissolved)	mg/l	0.012	ISO 17025	24	67

Petroleum Hydrocarbons

Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL	µg/l	10	NONE	< 10	< 10
TPH (EC10 - EC25) EH_ID_TOTAL_MS	µg/l	10	NONE	< 10	< 10
TPH (EC25 - EC40) EH_ID_TOTAL_MS	µg/l	10	NONE	< 10	< 10

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

Analytical Report Number : 25-042855

Project / Site name: Wythenshawe

* 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 *
645490	WS01	1	0.4	Brown loam and gravel
645491	WS01	2	1	Brown clay
645492	WS02A	1	0.6	Brown clay with brick
645493	WS03	1	0.25	Brown loam and clay
645494	WS03	2	0.52	Brown clay
645495	WS03A	1	0.5	Brown clay
645496	WS04	1	0.3	Brown sandy clay with stones
645497	WS04	2	0.6	Brown clay
645498	WS12	1	0.1	Brown sand
645499	WS13	1	0.6	Brown loam with stones
645500	WS13	2	1.1	Brown clay
645501	WS14	1	0.3	Brown loam and sand with gravel
645502	WS14	2	0.4	Brown clay
645503	WS17	1	0.4	Brown sand with stones
645504	WS17	2	0.6	Brown clay
645505	WS18	1	0.6	Brown clay with gravel
645506	WS18	2	1	Brown clay with gravel
645507	WS19A	1	0.5	Brown loam and gravel
645508	WS20	1	0.7	Brown loam and clay with stones

Analytical Report Number : 25-042855

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Organic matter (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
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	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
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 in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
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-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-042855

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Dissolved Organic Carbon in leachate	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Total petroleum hydrocarbons by GC-MS in leachate	Determination of total petroleum hydrocarbons in leachate by GC-MS	In-house method	L070B	W	NONE
Chromium III in leachate	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	ISO 17025
Monohydric phenols (low level) in leachate	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Total cyanide (low level) in leachate	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-PL	W	NONE
Mercury Low Level in leachate	Mercury in leachate by CV-AFS	In-house method based on USEPA method 1631	L085B	W	ISO 17025
Total petroleum hydrocarbons by HS-GC/MS in leachate	Determination of total petroleum hydrocarbons in soil by GC-MS HS	In-house method	L129-PL	W	NONE
pH at 20°C in leachate (automated)	Determination of pH in leachate by electrometric measurement	In-house method	L099-PL	W	ISO 17025

Analytical Report Number : 25-042855

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated PAHs and/or Semi-volatile organic compounds in leachate	SVOCs and PAHs in leachate	In-house method	L102B		NONE
One stage WAC 2:1 leachate preparation	One stage batch test at a liquid to solid ratio of 2 L/kg	BS EN 12457-1-2002	L043B	W	NONE
PCBs WHO 12 in soil	Determination of PCBs (WHO-12 Congeners) by GC-MS	In-house method based on USEPA 8082	L027B	D	NONE
PCBs By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	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

*U/S g- Unsuitable for analysis due to high colour intensity.

Analytical Report Number : 25-042855

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS01	1	S	645490	b	Asbestos Quantification - Gravimetric	A006B	b
WS01	1	S	645490	b	Asbestos identification in Soil	A001B	b
WS01	2	S	645491	b	Asbestos identification in Soil	A001B	b
WS02A	1	S	645492	b	Asbestos identification in Soil	A001B	b
WS03	1	S	645493	b	Asbestos identification in Soil	A001B	b
WS03	2	S	645494	b	Asbestos identification in Soil	A001B	b
WS03A	1	S	645495	b	Asbestos identification in Soil	A001B	b
WS04	1	S	645496	b	Asbestos identification in Soil	A001B	b
WS12	1	S	645498	b	Asbestos identification in Soil	A001B	b
WS13	1	S	645499	b	Asbestos identification in Soil	A001B	b
WS13	2	S	645500	b	Asbestos identification in Soil	A001B	b
WS14	1	S	645501	b	Asbestos identification in Soil	A001B	b
WS14	2	S	645502	b	Asbestos identification in Soil	A001B	b
WS17	1	S	645503	b	Asbestos identification in Soil	A001B	b
WS18	1	S	645505	b	Asbestos identification in Soil	A001B	b
WS18	2	S	645506	b	Asbestos identification in Soil	A001B	b
WS19A	1	S	645507	b	Asbestos identification in Soil	A001B	b
WS20	1	S	645508	b	Asbestos identification in Soil	A001B	b

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Analytical Report Number : 25-043851

Project / Site name:	Wythenshawe	Samples received on:	15/08/2025
Your job number:	51143	Samples instructed on/ Analysis started on:	15/08/2025
Your order number:	PO-0343	Analysis completed by:	26/08/2025
Report Issue Number:	1	Report issued on:	26/08/2025
Samples Analysed:	17 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
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	651216	651217	651218	651219	651220
Sample Reference	WS25	WS25	WS25	WS26	WS26
Sample Number	1	2	3	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.60	1.10	0.30	0.50
Date Sampled	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
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	50.9	63.9	46.6	80.7	< 0.1
Moisture Content	%	0.01	NONE	1.5	2.6	7.8	1	9.5
Total mass of sample received	kg	0.1	NONE	2	2	2	2	2

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	KMC	KMC	KMC	MWI	MWI
Analysis completed	N/A	N/A	N/A	25/08/2025	25/08/2025	25/08/2025	25/08/2025	25/08/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.9	10	11	8.6	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	360	510	1600	330	400
Organic Matter (automated)	%	0.1	MCERTS	3.4	0.3	1.1	0.8	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.06	< 0.05	0.53	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.11	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.62	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.32	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.59	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.18	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.19	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.06	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	2.97	< 0.85	< 0.85
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Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	651216	651217	651218	651219	651220
Sample Reference	WS25	WS25	WS25	WS26	WS26
Sample Number	1	2	3	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.60	1.10	0.30	0.50
Date Sampled	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	1.4
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	1.3	1.9	3.7	< 1.0	4.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	33	240	180	76	59
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	< 0.06	0.17	0.38	0.07	0.45
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.3	1	0.2	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	1	0.8	1.3	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	4.6	3.9	11	3.2	14
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	4.6	3.9	11	3.2	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	5.1	6.6	12	7.8	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	3.6	18	22	15	13
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	6.2	4.4	11	3	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	6.1	3.7	13	3.7	18
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	16	20	57	17	31

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	0.08	< 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	6.1	< 2.0	46	2.7	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	56	< 8.0	130	13	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	900	< 8.0	88	51	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	960	< 10	270	67	< 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	0.07	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	1.1	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	13	< 2.0	23	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	77	< 10	100	11	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	1000	< 10	150	70	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	1100	< 10	280	81	< 10

VOCs

Chloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Chloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Bromomethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-

Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number				651216	651217	651218	651219	651220
Sample Reference				WS25	WS25	WS25	WS26	WS26
Sample Number				1	2	3	1	2
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.20	0.60	1.10	0.30	0.50
Date Sampled				11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	-	-	-
Chloroform	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	< 7.0	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	< 6.0	-	-	-
Trichloroethene	µg/kg	10	MCERTS	-	< 10	-	-	-
Dibromomethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	< 10	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	< 6.0	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	14	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	33	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Bromoform	µg/kg	5	MCERTS	-	< 5.0	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	17	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	-	-	-
Bromobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Butylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	< 8.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-

Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	651216	651217	651218	651219	651220
Sample Reference	WS25	WS25	WS25	WS26	WS26
Sample Number	1	2	3	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.20	0.60	1.10	0.30	0.50
Date Sampled	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

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	NONE	-	< 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	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
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	-	< 0.2	-	-	-
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	-	< 0.3	-	-	-
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	-	-	-

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

Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	651221	651222	651223	651224	651225
Sample Reference	WS22	WS24	WS24	WS21	WS28
Sample Number	1	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.40	0.60	0.25	0.30
Date Sampled	11/08/2025	11/08/2025	11/08/2025	12/08/2025	12/08/2025
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	21.4	39.7	46.3	31.5	57.3
Moisture Content	%	0.01	NONE	6.7	3.1	4.4	4.6	1.9
Total mass of sample received	kg	0.1	NONE	2	2	2	2	2

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	MWI	MWI	MWI	MWI	MWI
Analysis completed	N/A	N/A	N/A	25/08/2025	25/08/2025	25/08/2025	25/08/2025	25/08/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.7	8.1	8.4	8.7	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	510	420	320	370	280
Organic Matter (automated)	%	0.1	MCERTS	3.8	1.3	0.7	1.5	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.49	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.49	0.06	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.3	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	2.7	0.44	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.68	0.09	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.9	0.68	0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	2.6	0.66	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	0.28	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.3	0.33	< 0.05	< 0.05	0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.4	0.34	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.55	0.17	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	0.3	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.56	0.14	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.09	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.63	0.18	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	0.3	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	17.3	3.68	< 0.85	< 0.85	< 0.85
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Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	651221	651222	651223	651224	651225
Sample Reference	WS22	WS24	WS24	WS21	WS28
Sample Number	1	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.40	0.60	0.25	0.30
Date Sampled	11/08/2025	11/08/2025	11/08/2025	12/08/2025	12/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.1	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	4.2	2.7	2.7	1.1
Barium (aqua regia extractable)	mg/kg	1	MCERTS	87	87	51	97	14
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.57	0.25	0.19	0.35	0.08
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.3	0.2	0.3	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	0.4	0.5	0.7	1.1
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	15	6.5	5.9	11	6.1
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	6.5	5.9	11	6.1
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	13	13	8.3	9.3
Lead (aqua regia extractable)	mg/kg	1	MCERTS	61	26	17	9.7	25
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	14	6	5.5	12	7.6
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	20	7.9	6.1	14	6.2
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	42	36	31	23

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	1.7	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	14	3
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	40	11
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	11	< 8.0	15	420	170
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	11	< 10	15	480	180

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	< 2.0	7.8	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	49	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	15	< 10	20	450	190
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	15	< 10	20	510	190

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number				651221	651222	651223	651224	651225
Sample Reference				WS22	WS24	WS24	WS21	WS28
Sample Number				1	1	2	1	2
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.50	0.40	0.60	0.25	0.30
Date Sampled				11/08/2025	11/08/2025	11/08/2025	12/08/2025	12/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	-	-
Chloroform	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	-	-
Bromoform	µg/kg	5	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	651221	651222	651223	651224	651225
Sample Reference	WS22	WS24	WS24	WS21	WS28
Sample Number	1	1	2	1	2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	0.40	0.60	0.25	0.30
Date Sampled	11/08/2025	11/08/2025	11/08/2025	12/08/2025	12/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

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

Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	651226	651227	651228	651229	651230
Sample Reference	WS27	WS23	WS23	FIP03	TP02
Sample Number	2	1	2	3	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.20	0.60	0.70	0.20
Date Sampled	12/08/2025	12/08/2025	12/08/2025	13/08/2025	14/08/2025
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	23.6	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	2.8	2.8	13	5.8
Total mass of sample received	kg	0.1	NONE	0.6	2	2	2	2

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	MJN	MJN	MJN	MJN	MJN
Analysis completed	N/A	N/A	N/A	25/08/2025	25/08/2025	25/08/2025	25/08/2025	25/08/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	9.2	9.1	9.1	9.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	390	360	280	320	900
Organic Matter (automated)	%	0.1	MCERTS	0.8	0.4	0.2	0.3	0.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
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Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number	651226	651227	651228	651229	651230
Sample Reference	WS27	WS23	WS23	FIP03	TP02
Sample Number	2	1	2	3	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.20	0.60	0.70	0.20
Date Sampled	12/08/2025	12/08/2025	12/08/2025	13/08/2025	14/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.2	< 1.0	< 1.0	1.7	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8	1.5	1.7	5.2	3.9
Barium (aqua regia extractable)	mg/kg	1	MCERTS	81	100	89	85	150
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.43	0.19	0.18	0.94	0.28
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.2	0.3	0.3	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.7	0.6	< 0.2	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	20	5.3	6	30	10
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	5.3	6	30	10
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.7	7.9	9.4	30	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	15	12	4.8	9.3
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	12	5.8	5.6	28	8.5
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	25	5.4	5.1	32	11
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	42	46	39	46	45

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	17	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	17	< 10	< 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	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	31	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	31	< 10	< 10	< 10

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Chloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-043851
Project / Site name: Wythenshawe
Your Order No: PO-0343

Lab Sample Number				651226	651227	651228	651229	651230
Sample Reference				WS27	WS23	WS23	FIP03	TP02
Sample Number				2	1	2	3	1
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.40	0.20	0.60	0.70	0.20
Date Sampled				12/08/2025	12/08/2025	12/08/2025	13/08/2025	14/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	-	-
Chloroform	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-	-	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-	-	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-	-	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-	-	-	-
Bromoform	µg/kg	5	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-	-	-	-

Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	651226	651227	651228	651229	651230
Sample Reference	WS27	WS23	WS23	FIP03	TP02
Sample Number	2	1	2	3	1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.40	0.20	0.60	0.70	0.20
Date Sampled	12/08/2025	12/08/2025	12/08/2025	13/08/2025	14/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

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

Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number				651231	651232
Sample Reference				TP02	TP04
Sample Number				2	3
Water Matrix				N/A	N/A
Depth (m)				0.40	0.40
Date Sampled				14/08/2025	14/08/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.8	7.9
Total mass of sample received	kg	0.1	NONE	2	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	MJN
Analysis completed	N/A	N/A	N/A	25/08/2025	25/08/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.7	9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	470	1000
Organic Matter (automated)	%	0.1	MCERTS	0.5	0.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.15
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.13
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.08
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.09
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.09
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.06
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85
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Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	651231	651232
Sample Reference	TP02	TP04
Sample Number	2	3
Water Matrix	N/A	N/A
Depth (m)	0.40	0.40
Date Sampled	14/08/2025	14/08/2025
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection
		Test Accreditation Status

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	1
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.9	4.7
Barium (aqua regia extractable)	mg/kg	1	MCERTS	63	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.27	0.31
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	7.4	11
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	7.4	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.8	9.9
Lead (aqua regia extractable)	mg/kg	1	MCERTS	6.6	14
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	7.4	8.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	10	13
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	29	66

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	2.3
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	12
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	15

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

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-
Chloroethane	µg/kg	5	MCERTS	-	-
Bromomethane	µg/kg	5	MCERTS	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-

Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number				651231	651232
Sample Reference				TP02	TP04
Sample Number				2	3
Water Matrix				N/A	N/A
Depth (m)				0.40	0.40
Date Sampled				14/08/2025	14/08/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
2,2-Dichloropropane	µg/kg	5	NONE	-	-
Chloroform	µg/kg	5	MCERTS	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0
Styrene	µg/kg	5	MCERTS	-	-
Bromoform	µg/kg	5	MCERTS	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	MCERTS	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-
2-Chlorotoluene	µg/kg	5	MCERTS	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-

Analytical Report Number: 25-043851

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number				651231	651232
Sample Reference				TP02	TP04
Sample Number				2	3
Water Matrix				N/A	N/A
Depth (m)				0.40	0.40
Date Sampled				14/08/2025	14/08/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-
Azobenzene	mg/kg	0.3	NONE	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-

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

Analytical Report Number : 25-043851

Project / Site name: Wythenshawe

* 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 *
651216	WS25	1	0.2	Brown loam and sand with stones
651217	WS25	2	0.6	Brown clay and sand with stones
651218	WS25	3	1.1	Brown clay and sand with vegetation and stones
651219	WS26	1	0.3	Brown sand with stones
651220	WS26	2	0.5	Brown loam and sand with gravel
651221	WS22	1	0.5	Brown loam and sand with vegetation and stones
651222	WS24	1	0.4	Brown loam and sand with stones
651223	WS24	2	0.6	Brown clay and sand with stones
651224	WS21	1	0.25	Brown clay and sand with stones
651225	WS28	2	0.3	Brown loam and sand with stones
651226	WS27	2	0.4	Brown clay and sand with stones
651227	WS23	1	0.2	Brown clay and sand with gravel
651228	WS23	2	0.6	Brown clay and sand with gravel
651229	FIP03	3	0.7	Brown clay and sand
651230	TP02	1	0.2	Brown sand with gravel
651231	TP02	2	0.4	Brown sand with gravel
651232	TP04	3	0.4	Brown sand with gravel

Analytical Report Number : 25-043851

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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
Organic matter (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
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	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
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 in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
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-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	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-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS

Analytical Report Number : 25-043851

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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 30oC.

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.

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

The result for sum should be interpreted with caution

Analytical Report Number : 25-043851

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
FIP03	3	S	651229	b	Asbestos identification in Soil	A001B	b
TP02	1	S	651230	b	Asbestos identification in Soil	A001B	b
TP02	2	S	651231	b	Asbestos identification in Soil	A001B	b
TP04	3	S	651232	b	Asbestos identification in Soil	A001B	b
WS21	1	S	651224	b	Asbestos identification in Soil	A001B	b
WS22	1	S	651221	b	Asbestos identification in Soil	A001B	b
WS23	1	S	651227	b	Asbestos identification in Soil	A001B	b
WS23	2	S	651228	b	Asbestos identification in Soil	A001B	b
WS24	1	S	651222	b	Asbestos identification in Soil	A001B	b
WS24	2	S	651223	b	Asbestos identification in Soil	A001B	b
WS25	1	S	651216	b	Asbestos identification in Soil	A001B	b
WS25	2	S	651217	b	Asbestos identification in Soil	A001B	b
WS25	3	S	651218	b	Asbestos identification in Soil	A001B	b
WS26	1	S	651219	b	Asbestos identification in Soil	A001B	b
WS26	2	S	651220	b	Asbestos identification in Soil	A001B	b
WS27	2	S	651226	b	Asbestos identification in Soil	A001B	b
WS28	2	S	651225	b	Asbestos identification in Soil	A001B	b

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Analytical Report Number : 25-046508

Project / Site name:	Wythenshawe	Samples received on:	29/08/2025
Your job number:	51143	Samples instructed on/ Analysis started on:	02/09/2025
Your order number:	PO 0343	Analysis completed by:	10/09/2025
Report Issue Number:	1	Report issued on:	10/09/2025
Samples Analysed:	1 soil sample		



Signed:

Anna Goc
PL Head of Reporting Team
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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-046508
Project / Site name: Wythenshawe
Your Order No: PO 0343

Lab Sample Number	665315			
Sample Reference	RC05			
Sample Number	1			
Water Matrix	N/A			
Depth (m)	0.80			
Date Sampled	28/08/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	11
Total mass of sample received	kg	0.1	NONE	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WEM
Analysis completed	N/A	N/A	N/A	08/09/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	900
Organic Matter (automated)	%	0.1	MCERTS	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.42
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.09
Fluorene	mg/kg	0.05	MCERTS	0.12
Phenanthrene	mg/kg	0.05	MCERTS	0.74
Anthracene	mg/kg	0.05	MCERTS	0.18
Fluoranthene	mg/kg	0.05	MCERTS	1.2
Pyrene	mg/kg	0.05	MCERTS	1.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.54
Chrysene	mg/kg	0.05	MCERTS	0.55
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.72
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.52
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.27
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.33
Coronene	mg/kg	0.05	NONE	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	7.07
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Analytical Report Number: 25-046508
Project / Site name: Wythenshawe
Your Order No: PO 0343

Lab Sample Number	665315			
Sample Reference	RC05			
Sample Number	1			
Water Matrix	N/A			
Depth (m)	0.80			
Date Sampled	28/08/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.3
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12
Barium (aqua regia extractable)	mg/kg	1	MCERTS	250
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (III)	mg/kg	1	NONE	30
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	30
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	39

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	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10

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	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

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

Analytical Report Number : 25-046508

Project / Site name: Wythenshawe

* 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 *
665315	RC05	1	0.8	Brown clay and sand with gravel

Analytical Report Number : 25-046508

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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
Organic matter (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
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	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
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 in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
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-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	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-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS

Analytical Report Number : 25-046508

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI 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-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

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

The result for sum should be interpreted with caution

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Analytical Report Number : 25-046531

Project / Site name:	Wythenshawe	Samples received on:	11/08/2025
Your job number:	51143	Samples instructed on/ Analysis started on:	29/08/2025
Your order number:	PO 0344	Analysis completed by:	11/09/2025
Report Issue Number:	1	Report issued on:	11/09/2025
Samples Analysed:	23 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
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An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665443	665444	665445	665446	665447
Sample Reference	WS01	WS02A	WS12	WS13	WS17
Sample Number	D2	D2	D1	D1	D2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.80	1.70	2.00-2.45	1.70	1.80
Date Sampled	05/08/2025	05/08/2025	07/08/2025	07/08/2025	07/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	12	8.6	12	13
Total mass of sample received	kg	0.1	NONE	1.2	1.2	0.5	0.5	1.2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.4	7.7	7.5	7.1	7
Total Sulphate as SO ₄	%	0.005	MCERTS	0.04	0.036	0.024	0.017	0.019
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	37	130	26	39	43
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent	mg/l	1.25	MCERTS	18.3	62.6	13	19.4	21.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.2	1.5	9.3	10	22
Total Sulphur	mg/kg	50	MCERTS	130	110	90	< 50	79
Total Sulphur	%	0.005	MCERTS	0.013	0.011	0.009	< 0.005	0.008
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	4.7	9.2	9.4	8.3	9.7
Magnesium (water soluble)	mg/kg	5	NONE	9.4	19	19	17	19

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665448	665449	665450	665451	665723
Sample Reference	WS18	WS18	WS19A	WS20	WS05
Sample Number	D1	D2	D2	D2	D1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.70	3.00-3.40	1.60	1.80	1.50
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025	05/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	13	9.9	12	20
Total mass of sample received	kg	0.1	NONE	0.5	0.5	1.2	0.5	0.1

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.3	8.3	7.7	7.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.035	0.027	0.046	0.021	0.085
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	32	20	57	58	530
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	16.1	9.83	28.7	28.8	265
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.3	4.5	17	13	28
Total Sulphur	mg/kg	50	MCERTS	110	91	130	67	770
Total Sulphur	%	0.005	MCERTS	0.011	0.009	0.013	0.007	0.077
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	17	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	8.7	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	5	4.8	3.7	7.3	12
Magnesium (water soluble)	mg/kg	5	NONE	10	9.5	7.3	15	25

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665724	665725	665726	665727	665728
Sample Reference	WS05	WS07	WS08	WS08	WS15
Sample Number	D2	D1	D2	D3	D3
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.30	1.20	1.90	2.00	2.60
Date Sampled	05/08/2025	05/08/2025	05/08/2025	05/08/2025	05/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	50	7.5	17	14	14
Total mass of sample received	kg	0.1	NONE	0.1	0.4	0.4	0.5	0.4

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.8	8.2	8.3	8.1	8.1
Total Sulphate as SO ₄	%	0.005	MCERTS	0.252	0.014	0.022	0.019	0.045
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1900	34	66	56	15
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	965	17.1	33.2	28.2	7.72
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	130	1.2	2.1	2.1	1.3
Total Sulphur	mg/kg	50	MCERTS	5300	81	83	89	170
Total Sulphur	%	0.005	MCERTS	0.527	0.008	0.008	0.009	0.017
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	66	5.9	9.2	25	5.6
Magnesium (water soluble)	mg/kg	5	NONE	130	12	18	50	11

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665729	665730	665731	665732	665733
Sample Reference	WS21	WS24	WS25	WS26	WS26
Sample Number	D3	D2	D2	D1	D3
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.60	1.80	2.60	1.20	3.00
Date Sampled	05/08/2025	05/08/2025	05/08/2025	05/08/2025	05/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	18	29	11	7.1
Total mass of sample received	kg	0.1	NONE	0.4	0.5	0.3	0.4	0.4

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.9	8.4	6.6	6.8	8.3
Total Sulphate as SO ₄	%	0.005	MCERTS	0.031	0.067	0.12	0.015	0.042
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	46	450	850	38	22
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent	mg/l	1.25	MCERTS	23.2	224	427	19.1	11.1
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	49	3.1	32	20	8.7
Total Sulphur	mg/kg	50	MCERTS	130	1100	1600	71	150
Total Sulphur	%	0.005	MCERTS	0.013	0.106	0.16	0.007	0.015
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	35	21	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	18	11	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	18	23	47	12	7.9
Magnesium (water soluble)	mg/kg	5	NONE	36	47	95	25	16

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665734	665735	665736
Sample Reference	WS27	WS28	WS8
Sample Number	D2	D1	D3
Water Matrix	N/A	N/A	N/A
Depth (m)	1.50	0.70	1.40
Date Sampled	05/08/2025	05/08/2025	05/08/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	15	17
Total mass of sample received	kg	0.1	NONE	0.6	0.4	0.5

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	8.9	8.3
Total Sulphate as SO ₄	%	0.005	MCERTS	0.018	0.018	0.021
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	24	30	31
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent	mg/l	1.25	MCERTS	11.8	14.8	15.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	18	34	54
Total Sulphur	mg/kg	50	MCERTS	81	68	74
Total Sulphur	%	0.005	MCERTS	0.008	0.007	0.007
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	6.3	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	5.4	13	12
Magnesium (water soluble)	mg/kg	5	NONE	11	26	25

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

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

* 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 *
665443	WS01	D2	1.8	Brown clay and loam
665444	WS02A	D2	1.7	Brown clay and loam
665445	WS12	D1	2.00-2.45	Brown clay and loam
665446	WS13	D1	1.7	Brown clay and loam with gravel
665447	WS17	D2	1.8	Brown clay and loam with gravel
665448	WS18	D1	2.7	Brown clay and loam
665449	WS18	D2	3.00-3.40	Brown clay and loam
665450	WS19A	D2	1.6	Brown clay and loam
665451	WS20	D2	1.8	Brown clay and loam with gravel
665723	WS05	D1	1.5	Brown loam and clay with gravel and vegetation
665724	WS05	D2	2.3	Brown loam and clay with gravel and vegetation
665725	WS07	D1	1.2	Brown clay and sand with gravel
665726	WS08	D2	1.9	Brown clay and sand
665727	WS08	D3	2	Brown clay and sand
665728	WS15	D3	2.6	Brown clay and sand
665729	WS21	D3	1.6	Brown clay and sand
665730	WS24	D2	1.8	Brown clay and sand with gravel
665731	WS25	D2	2.6	Brown loam and clay with gravel
665732	WS26	D1	1.2	Brown clay and sand with gravel
665733	WS26	D3	3	Brown clay and sand with gravel
665734	WS27	D2	1.5	Brown clay and sand with gravel
665735	WS28	D1	0.7	Brown clay and sand with gravel
665736	WS8	D3	1.4	Brown clay and sand with gravel

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
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
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

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

The result for sum should be interpreted with caution

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS01	D2	S	665443	c	Chloride, water soluble, in soil	L082B	c
WS01	D2	S	665443	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS01	D2	S	665443	c	Total Sulphur in soil	L038B	c
WS01	D2	S	665443	c	Total sulphate (as SO4 in soil)	L038B	c
WS01	D2	S	665443	c	pH in soil (automated)	L099-PL	c
WS02A	D2	S	665444	c	Chloride, water soluble, in soil	L082B	c
WS02A	D2	S	665444	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS02A	D2	S	665444	c	Total Sulphur in soil	L038B	c
WS02A	D2	S	665444	c	Total sulphate (as SO4 in soil)	L038B	c
WS02A	D2	S	665444	c	pH in soil (automated)	L099-PL	c
WS05	D1	S	665723	c	Chloride, water soluble, in soil	L082B	c
WS05	D1	S	665723	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS05	D1	S	665723	c	Total Sulphur in soil	L038B	c
WS05	D1	S	665723	c	Total sulphate (as SO4 in soil)	L038B	c
WS05	D1	S	665723	c	pH in soil (automated)	L099-PL	c
WS05	D2	S	665724	c	Chloride, water soluble, in soil	L082B	c
WS05	D2	S	665724	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS05	D2	S	665724	c	Total Sulphur in soil	L038B	c
WS05	D2	S	665724	c	Total sulphate (as SO4 in soil)	L038B	c
WS05	D2	S	665724	c	pH in soil (automated)	L099-PL	c
WS07	D1	S	665725	c	Chloride, water soluble, in soil	L082B	c
WS07	D1	S	665725	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS07	D1	S	665725	c	Total Sulphur in soil	L038B	c
WS07	D1	S	665725	c	Total sulphate (as SO4 in soil)	L038B	c
WS07	D1	S	665725	c	pH in soil (automated)	L099-PL	c
WS08	D2	S	665726	c	Chloride, water soluble, in soil	L082B	c
WS08	D2	S	665726	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS08	D2	S	665726	c	Total Sulphur in soil	L038B	c
WS08	D2	S	665726	c	Total sulphate (as SO4 in soil)	L038B	c
WS08	D2	S	665726	c	pH in soil (automated)	L099-PL	c
WS08	D3	S	665727	c	Chloride, water soluble, in soil	L082B	c
WS08	D3	S	665727	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS08	D3	S	665727	c	Total Sulphur in soil	L038B	c
WS08	D3	S	665727	c	Total sulphate (as SO4 in soil)	L038B	c
WS08	D3	S	665727	c	pH in soil (automated)	L099-PL	c
WS12	D1	S	665445	c	Chloride, water soluble, in soil	L082B	c
WS12	D1	S	665445	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS12	D1	S	665445	c	Total Sulphur in soil	L038B	c
WS12	D1	S	665445	c	Total sulphate (as SO4 in soil)	L038B	c
WS12	D1	S	665445	c	pH in soil (automated)	L099-PL	c
WS13	D1	S	665446	c	Chloride, water soluble, in soil	L082B	c
WS13	D1	S	665446	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS13	D1	S	665446	c	Total Sulphur in soil	L038B	c
WS13	D1	S	665446	c	Total sulphate (as SO4 in soil)	L038B	c
WS13	D1	S	665446	c	pH in soil (automated)	L099-PL	c
WS15	D3	S	665728	c	Chloride, water soluble, in soil	L082B	c
WS15	D3	S	665728	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS15	D3	S	665728	c	Total Sulphur in soil	L038B	c
WS15	D3	S	665728	c	Total sulphate (as SO4 in soil)	L038B	c
WS15	D3	S	665728	c	pH in soil (automated)	L099-PL	c
WS17	D2	S	665447	c	Chloride, water soluble, in soil	L082B	c
WS17	D2	S	665447	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS17	D2	S	665447	c	Total Sulphur in soil	L038B	c
WS17	D2	S	665447	c	Total sulphate (as SO4 in soil)	L038B	c
WS17	D2	S	665447	c	pH in soil (automated)	L099-PL	c
WS18	D1	S	665448	c	Chloride, water soluble, in soil	L082B	c



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Sample Deviation Report

Normec
i2 Analytical

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS18	D1	S	665448	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS18	D1	S	665448	c	Total Sulphur in soil	L038B	c
WS18	D1	S	665448	c	Total sulphate (as SO4 in soil)	L038B	c
WS18	D1	S	665448	c	pH in soil (automated)	L099-PL	c
WS18	D2	S	665449	c	Chloride, water soluble, in soil	L082B	c
WS18	D2	S	665449	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS18	D2	S	665449	c	Total Sulphur in soil	L038B	c
WS18	D2	S	665449	c	Total sulphate (as SO4 in soil)	L038B	c
WS18	D2	S	665449	c	pH in soil (automated)	L099-PL	c
WS19A	D2	S	665450	c	Chloride, water soluble, in soil	L082B	c
WS19A	D2	S	665450	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS19A	D2	S	665450	c	Total Sulphur in soil	L038B	c
WS19A	D2	S	665450	c	Total sulphate (as SO4 in soil)	L038B	c
WS19A	D2	S	665450	c	pH in soil (automated)	L099-PL	c
WS20	D2	S	665451	c	Chloride, water soluble, in soil	L082B	c
WS20	D2	S	665451	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS20	D2	S	665451	c	Total Sulphur in soil	L038B	c
WS20	D2	S	665451	c	Total sulphate (as SO4 in soil)	L038B	c
WS20	D2	S	665451	c	pH in soil (automated)	L099-PL	c
WS21	D3	S	665729	c	Chloride, water soluble, in soil	L082B	c
WS21	D3	S	665729	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS21	D3	S	665729	c	Total Sulphur in soil	L038B	c
WS21	D3	S	665729	c	Total sulphate (as SO4 in soil)	L038B	c
WS21	D3	S	665729	c	pH in soil (automated)	L099-PL	c
WS24	D2	S	665730	c	Chloride, water soluble, in soil	L082B	c
WS24	D2	S	665730	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS24	D2	S	665730	c	Total Sulphur in soil	L038B	c
WS24	D2	S	665730	c	Total sulphate (as SO4 in soil)	L038B	c
WS24	D2	S	665730	c	pH in soil (automated)	L099-PL	c
WS25	D2	S	665731	c	Chloride, water soluble, in soil	L082B	c
WS25	D2	S	665731	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS25	D2	S	665731	c	Total Sulphur in soil	L038B	c
WS25	D2	S	665731	c	Total sulphate (as SO4 in soil)	L038B	c
WS25	D2	S	665731	c	pH in soil (automated)	L099-PL	c
WS26	D1	S	665732	c	Chloride, water soluble, in soil	L082B	c
WS26	D1	S	665732	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS26	D1	S	665732	c	Total Sulphur in soil	L038B	c
WS26	D1	S	665732	c	Total sulphate (as SO4 in soil)	L038B	c
WS26	D1	S	665732	c	pH in soil (automated)	L099-PL	c
WS26	D3	S	665733	c	Chloride, water soluble, in soil	L082B	c
WS26	D3	S	665733	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS26	D3	S	665733	c	Total Sulphur in soil	L038B	c
WS26	D3	S	665733	c	Total sulphate (as SO4 in soil)	L038B	c
WS26	D3	S	665733	c	pH in soil (automated)	L099-PL	c
WS27	D2	S	665734	c	Chloride, water soluble, in soil	L082B	c
WS27	D2	S	665734	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS27	D2	S	665734	c	Total Sulphur in soil	L038B	c
WS27	D2	S	665734	c	Total sulphate (as SO4 in soil)	L038B	c
WS27	D2	S	665734	c	pH in soil (automated)	L099-PL	c
WS28	D1	S	665735	c	Chloride, water soluble, in soil	L082B	c
WS28	D1	S	665735	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS28	D1	S	665735	c	Total Sulphur in soil	L038B	c
WS28	D1	S	665735	c	Total sulphate (as SO4 in soil)	L038B	c
WS28	D1	S	665735	c	pH in soil (automated)	L099-PL	c
WS8	D3	S	665736	c	Chloride, water soluble, in soil	L082B	c
WS8	D3	S	665736	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS8	D3	S	665736	c	Total Sulphur in soil	L038B	c
WS8	D3	S	665736	c	Total sulphate (as SO ₄ in soil)	L038B	c
WS8	D3	S	665736	c	pH in soil (automated)	L099-PL	c

Appendix E – Chemical Water Laboratory Analysis Results



4041

Civic Earth Limited
Carvers Warehouse
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Manchester
M1 2HG

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Analytical Report Number : 25-050306

Project / Site name:	Wythenshawe	Samples received on:	18/09/2025
Your job number:	51143-01	Samples instructed on/ Analysis started on:	18/09/2025
Your order number:	PO-0343	Analysis completed by:	26/09/2025
Report Issue Number:	1	Report issued on:	26/09/2025
Samples Analysed:	12 water samples		



Signed:

Anna Goc
PL Head of Reporting Team
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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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.



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Analytical Report Number: 25-050306

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	685919	685920	685921	685922	685923
Sample Reference	RC01	RC02	RC05	RC06	WS01
Sample Number	1	1	1	1	1
Water Matrix	Ground water	Ground water	Ground water	Ground water	Ground water
Depth (m)	2.50	4.00	4.00	4.00	1.00
Date Sampled	17/09/2025	17/09/2025	17/09/2025	17/09/2025	16/09/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	ISO 17025	7.7	7.4	7.7	7.2	7.2
Total Cyanide (Low Level 1 µg/l)	µg/l	1	NONE	1.3	< 1.0	< 1.0	1.4	4.4
Free Cyanide (Low Level)	µg/l	1	NONE	< 1.0	-	-	< 1.0	< 1.0
Sulphate as SO ₄	mg/l	0.045	ISO 17025	126	34.2	38.1	47.8	2.88
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	26	< 15	< 15	7800
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	2.56	3.46	2.11	2.92	152
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	342	629	264	796	967

Total Phenols

Total Phenols (Monohydric) Low Level	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	20
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.03	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.05	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	0.03	0.12	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.05	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.02	0.09	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	0.02	0.08	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.08	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	0.08	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	0.58	< 0.16	< 0.16
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Heavy Metals / Metalloids

Antimony (dissolved)	µg/l	0.4	ISO 17025	< 0.4	< 0.4	< 0.4	< 0.4	1
Arsenic (dissolved)	µg/l	0.15	ISO 17025	1.24	0.4	0.85	0.63	32.2
Barium (dissolved)	µg/l	0.06	ISO 17025	160	610	130	830	510
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.1	1.3	0.43	2	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	1	0.3	0.4	0.7	1.2
Copper (dissolved)	µg/l	0.5	ISO 17025	1.7	1.6	2.9	1.9	1.4
Lead (dissolved)	µg/l	0.2	ISO 17025	0.9	2.4	2	2.9	3.5
Mercury (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	1.3	3	2.3	2.4	4
Selenium (dissolved)	µg/l	0.6	ISO 17025	3.2	1.5	< 0.6	0.8	1.1
Vanadium (dissolved)	µg/l	0.2	ISO 17025	2.8	1.1	1.9	0.8	2.4
Zinc (dissolved)	µg/l	0.5	ISO 17025	4.6	53	24	150	6.5



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Analytical Report Number: 25-050306

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	685919	685920	685921	685922	685923
Sample Reference	RC01	RC02	RC05	RC06	WS01
Sample Number	1	1	1	1	1
Water Matrix	Ground water	Ground water	Ground water	Ground water	Ground water
Depth (m)	2.50	4.00	4.00	4.00	1.00
Date Sampled	17/09/2025	17/09/2025	17/09/2025	17/09/2025	16/09/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Antimony (dissolved)	µg/l	1.7	ISO 17025	-	-	-	-	-
Arsenic (dissolved)	µg/l	1	ISO 17025	-	-	-	-	-
Barium (dissolved)	µg/l	0.05	ISO 17025	-	-	-	-	-
Beryllium (dissolved)	µg/l	0.2	ISO 17025	-	-	-	-	-
Boron (dissolved)	µg/l	10	ISO 17025	27	25	23	33	96
Cadmium (dissolved)	µg/l	0.08	ISO 17025	-	-	-	-	-
Calcium (dissolved)	mg/l	0.012	ISO 17025	75	130	58	160	300
Chromium (dissolved)	µg/l	0.4	ISO 17025	-	-	-	-	-
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper (dissolved)	µg/l	0.7	ISO 17025	-	-	-	-	-
Lead (dissolved)	µg/l	1	ISO 17025	-	-	-	-	-
Mercury (dissolved)	µg/l	0.5	ISO 17025	-	-	-	-	-
Nickel (dissolved)	µg/l	0.3	ISO 17025	-	-	-	-	-
Selenium (dissolved)	µg/l	4	ISO 17025	-	-	-	-	-
Vanadium (dissolved)	µg/l	1.7	ISO 17025	-	-	-	-	-
Zinc (dissolved)	µg/l	0.4	ISO 17025	-	-	-	-	-

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aliphatic >EC10 - EC12 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC12 - EC16 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC16 - EC21 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC21 - EC35 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC5 - EC35 _{HS+EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aromatic >EC10 - EC12 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aromatic >EC12 - EC16 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aromatic >EC16 - EC21 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aromatic >EC21 - EC35 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aromatic >EC5 - EC35 _{HS+EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/l	3	ISO 17025	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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



4041

Analytical Report Number: 25-050306

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	685924	685925	685926	685927	685928
Sample Reference	WS02A	WS05	WS13	WS18	WS24
Sample Number	1	1	1	1	1
Water Matrix	Ground water	Ground water	Ground water	Ground water	Ground water
Depth (m)	1.20	1.50	1.00	1.50	1.50
Date Sampled	16/09/2025	16/09/2025	16/09/2025	16/09/2025	17/09/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	ISO 17025	7.4	7	7.8	7.4	7.2
Total Cyanide (Low Level 1 µg/l)	µg/l	1	NONE	1.6	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide (Low Level)	µg/l	1	NONE	< 1.0	-	-	-	-
Sulphate as SO ₄	mg/l	0.045	ISO 17025	666	32.4	535	454	50.1
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	98	28	140	2000
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	3.4	5.84	5.28	4.05	11.5
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	689	428	224	294	267

Total Phenols

Total Phenols (Monohydric) Low Level	µg/l	1	NONE	1.3	1.1	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.04
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.02	< 0.01	< 0.01	0.06
Pyrene	µg/l	0.01	ISO 17025	< 0.01	0.02	< 0.01	< 0.01	0.06
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	0.02	< 0.01	< 0.01	0.05
Chrysene	µg/l	0.01	ISO 17025	< 0.01	0.01	< 0.01	< 0.01	0.04
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16	0.26
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Heavy Metals / Metalloids

Antimony (dissolved)	µg/l	0.4	ISO 17025	-	1.9	0.7	2.8	1.3
Arsenic (dissolved)	µg/l	0.15	ISO 17025	-	1.74	1.21	0.62	2.72
Barium (dissolved)	µg/l	0.06	ISO 17025	-	260	42	61	210
Beryllium (dissolved)	µg/l	0.1	ISO 17025	-	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	-	0.1	< 0.02	0.26	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	-	0.4	2.9	0.3	0.4
Copper (dissolved)	µg/l	0.5	ISO 17025	-	2	4.1	2.8	3
Lead (dissolved)	µg/l	0.2	ISO 17025	-	< 0.2	< 0.2	< 0.2	< 0.2
Mercury (dissolved)	µg/l	0.05	NONE	-	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	-	5.9	1.7	2.8	2.4
Selenium (dissolved)	µg/l	0.6	ISO 17025	-	4.4	32	28	2.3
Vanadium (dissolved)	µg/l	0.2	ISO 17025	-	1.9	2.2	0.5	1.1
Zinc (dissolved)	µg/l	0.5	ISO 17025	-	5.4	2.3	1.9	1.9



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Analytical Report Number: 25-050306

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number	685924	685925	685926	685927	685928
Sample Reference	WS02A	WS05	WS13	WS18	WS24
Sample Number	1	1	1	1	1
Water Matrix	Ground water	Ground water	Ground water	Ground water	Ground water
Depth (m)	1.20	1.50	1.00	1.50	1.50
Date Sampled	16/09/2025	16/09/2025	16/09/2025	16/09/2025	17/09/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Antimony (dissolved)	µg/l	1.7	ISO 17025	< 1.7	-	-	-	-
Arsenic (dissolved)	µg/l	1	ISO 17025	7.4	-	-	-	-
Barium (dissolved)	µg/l	0.05	ISO 17025	52	-	-	-	-
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	-	-	-	-
Boron (dissolved)	µg/l	10	ISO 17025	100	79	73	12	34
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	-	-	-	-
Calcium (dissolved)	mg/l	0.012	ISO 17025	150	160	66	110	86
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.9	-	-	-	-
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper (dissolved)	µg/l	0.7	ISO 17025	1.5	-	-	-	-
Lead (dissolved)	µg/l	1	ISO 17025	2.6	-	-	-	-
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	-	-	-	-
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.9	-	-	-	-
Selenium (dissolved)	µg/l	4	ISO 17025	29	-	-	-	-
Vanadium (dissolved)	µg/l	1.7	ISO 17025	3.1	-	-	-	-
Zinc (dissolved)	µg/l	0.4	ISO 17025	4.7	-	-	-	-

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aliphatic >EC6 - EC8 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aliphatic >EC8 - EC10 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aliphatic >EC10 - EC12 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC12 - EC16 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC16 - EC21 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC21 - EC35 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aliphatic >EC5 - EC35 _{HS+EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH - Aromatic >EC5 - EC7 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aromatic >EC7 - EC8 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aromatic >EC8 - EC10 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH - Aromatic >EC10 - EC12 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	20	< 10	< 10	< 10
TPH - Aromatic >EC12 - EC16 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	45	< 10	< 10	< 10
TPH - Aromatic >EC16 - EC21 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	25	< 10	< 10	< 10
TPH - Aromatic >EC21 - EC35 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH - Aromatic >EC5 - EC35 _{HS+EH_1D_AR_MS}	µg/l	10	NONE	< 10	90	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/l	3	ISO 17025	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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



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Analytical Report Number: 25-050306

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number				685929	685930
Sample Reference				WS25	WS27
Sample Number				1	1
Water Matrix				Ground water	Ground water
Depth (m)				0.80	2.00
Date Sampled				17/09/2025	17/09/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

General Inorganics

pH (L099)	pH Units	N/A	ISO 17025	7.5	7.4
Total Cyanide (Low Level 1 µg/l)	µg/l	1	NONE	25	< 1.0
Free Cyanide (Low Level)	µg/l	1	NONE	< 1.0	-
Sulphate as SO ₄	mg/l	0.045	ISO 17025	15.2	47.7
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	30	< 15
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	11.8	3.13
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	213	636

Total Phenols

Total Phenols (Monohydric) Low Level	µg/l	1	NONE	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16
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Heavy Metals / Metalloids

Antimony (dissolved)	µg/l	0.4	ISO 17025	1.4	< 0.4
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.72	0.49
Barium (dissolved)	µg/l	0.06	ISO 17025	240	170
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.04	0.1
Chromium (dissolved)	µg/l	0.2	ISO 17025	2.9	0.3
Copper (dissolved)	µg/l	0.5	ISO 17025	12	1.2
Lead (dissolved)	µg/l	0.2	ISO 17025	0.7	< 0.2
Mercury (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	1.8	2.5
Selenium (dissolved)	µg/l	0.6	ISO 17025	1	1
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.6	0.5
Zinc (dissolved)	µg/l	0.5	ISO 17025	6.3	2.6



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Analytical Report Number: 25-050306

Project / Site name: Wythenshawe

Your Order No: PO-0343

Lab Sample Number				685929	685930
Sample Reference				WS25	WS27
Sample Number				1	1
Water Matrix				Ground water	Ground water
Depth (m)				0.80	2.00
Date Sampled				17/09/2025	17/09/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Antimony (dissolved)	µg/l	1.7	ISO 17025	-	-
Arsenic (dissolved)	µg/l	1	ISO 17025	-	-
Barium (dissolved)	µg/l	0.05	ISO 17025	-	-
Beryllium (dissolved)	µg/l	0.2	ISO 17025	-	-
Boron (dissolved)	µg/l	10	ISO 17025	15	40
Cadmium (dissolved)	µg/l	0.08	ISO 17025	-	-
Calcium (dissolved)	mg/l	0.012	ISO 17025	78	140
Chromium (dissolved)	µg/l	0.4	ISO 17025	-	-
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0
Copper (dissolved)	µg/l	0.7	ISO 17025	-	-
Lead (dissolved)	µg/l	1	ISO 17025	-	-
Mercury (dissolved)	µg/l	0.5	ISO 17025	-	-
Nickel (dissolved)	µg/l	0.3	ISO 17025	-	-
Selenium (dissolved)	µg/l	4	ISO 17025	-	-
Vanadium (dissolved)	µg/l	1.7	ISO 17025	-	-
Zinc (dissolved)	µg/l	0.4	ISO 17025	-	-

Petroleum Hydrocarbons

TPH - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH - Aliphatic >EC10 - EC12 _{EH, 1D, AL, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aliphatic >EC12 - EC16 _{EH, 1D, AL, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aliphatic >EC16 - EC21 _{EH, 1D, AL, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aliphatic >EC21 - EC35 _{EH, 1D, AL, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aliphatic >EC5 - EC35 _{HS+EH, 1D, AL, MS}	µg/l	10	NONE	< 10	< 10

TPH - Aromatic >EC5 - EC7 _{HS, 1D, AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH - Aromatic >EC7 - EC8 _{HS, 1D, AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH - Aromatic >EC8 - EC10 _{HS, 1D, AR}	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH - Aromatic >EC10 - EC12 _{EH, 1D, AR, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aromatic >EC12 - EC16 _{EH, 1D, AR, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aromatic >EC16 - EC21 _{EH, 1D, AR, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aromatic >EC21 - EC35 _{EH, 1D, AR, MS}	µg/l	10	NONE	< 10	< 10
TPH - Aromatic >EC5 - EC35 _{HS+EH, 1D, AR, MS}	µg/l	10	NONE	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/l	3	ISO 17025	< 3.0	< 3.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0

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



4041

Analytical Report Number : 25-050306

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited matrices: SW, PW, GW, except B - SW, GW, Hg - SW, PW, Al - SW, PW	In-house method based on USEPA Method 6020 & 200.8 for the determination of trace elements in water by ICP-MS	L012B	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR Analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, FSE, LL; PrW, DI PrW (Al, Cu, Fe, Zn)	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Total Hardness of water	Determination of total hardness of water by calculation from calcium and magnesium. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045B	W	ISO 17025
Total Petroleum Hydrocarbons with carbon banding in water by GC-MS	Determination of total petroleum hydrocarbons in water by GC-MS with carbon banding aliphatic and aromatic	In-house method	L070B	W	NONE
Total Petroleum Hydrocarbons with carbon banding in water by GC-MS/HS-GC-MS	Determination of total petroleum hydrocarbons in water by GC-MS/HS-GC-MS with carbon banding aliphatic and aromatic (Summed Bands)	Calculation	L070B/L088-PL	W	NONE
BTEX and/or Volatile Organic Compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method based on USEPA 8260	L073B	W	ISO 17025
Chromium(III) in water	In-house method by calculation from total Cr and Cr(VI)	In-house method by calculation	L080-PL	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5-diphenylcarbazide, followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method by continuous flow analyser	L080-PL	W	ISO 17025
Free cyanide (low level) in water	Determination of free cyanide in water by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Monohydric phenols (low level) in water	Determination of phenols in water by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Total cyanide (low level) in water	Determination of total cyanide in water by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	NONE
Total Petroleum Hydrocarbons in water by HS-GC/MS	Determination of total petroleum hydrocarbons in water by headspace HS-GC/MS. Accredited matrices: SW, PW, GW	In-house method	L088-PL	W	ISO 17025
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	ISO 17025
Speciated PAHs and/or Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds (including PAHs) in water by extraction in dichloromethane followed by GC-MS. Accredited matrices (PAHs): SW, PW, GW	In-house method based on USEPA 8270	L102B	W	ISO 17025
Ammoniacal Nitrogen as N in water	Determination of ammonium/ammonia/ammoniacal nitrogen by the colorimetric salicylate/nitroprusside method using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	ISO 17025



4041

Analytical Report Number : 25-050306

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited matrices: SW, PW, GW, PrW, DI PrW, FSE, LL	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025

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 30oC.

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

Appendix F – Geotechnical Laboratory Analysis Results

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09 October 2025

Report No : GEO/43308/02

Page 1 of 1

For the attention of Lindsay Reid / Mr J Foster

Our ref	GEO / 43308	Date samples received	10/09/2025
Your ref	51143/01	Date written instructions received	12/09/2025
Order ref	PO-0384	Date testing commenced	13/09/2025
		Date of sample disposal	06/11/2025

Project **WYTHENSHAW**

Further to your instructions we have pleasure in enclosing the results of the tests you requested in the attached figures.

LABORATORY TEST REPORT

Item No	Test Quantity	Description
1	~	Liquid & Plastic Limits Summary
~	14	Water Content
~	13	Liquid & Plastic Limits
2	1	Particle Size Distribution
3	1	Shear Strength by Hand Vane
4	1	Unconfined Compressive Strength with Young's Modulus and Poisson's Ratio
5	30	Point Load Strength Index

Any opinions or interpretations expressed herein are outside the scope of UKAS accreditation. All results contained in this report are provisional and may be subject to change unless signed by an approved signatory. The results contained in this report relate only to samples received in the laboratory and are tested 'as received' unless otherwise stated. This report should not be reproduced, except in full, without the written approval of the laboratory. The results reported are applicable only to the test items received by the laboratory.

All the necessary data required by the documented test procedures has been recorded and will be stored for a period of not less than 6 years. This data will be issued to yourselves at your request. All samples will be disposed of after the date shown above. Written confirmation will be required to retain the samples beyond this period and a storage charge may be applied.

We trust that the above meets your requirements and should you require any further information or assistance, please do not hesitate to contact us.

Yours faithfully
 on behalf of **GEOLABS Limited**



I Tabios
 Laboratory Manager

SUMMARY OF LIQUID AND PLASTIC LIMIT TESTS

Location	Depth m	Sample Ref	Sample Type	Description	Water Content BS EN ISO 17892-1 : 2014 +A1:2022 %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Percentage Passing 425µm %	Atterberg Classification BS EN ISO 14688-2:2018	Test Type	Sample Condition
RC05	0.40		B	Red brown very sandy GRAVEL.	10.7	~	~	~	~	~	~	~
WS01	1.60	D1	D	Orangish brown and grey siltstone sandy silty CLAY. Sand is fine.	17.1	29	19	10	84	CIL	2	3
WS04	1.90	D2	D	Reddish brown and grey slightly gravelly sandy silty CLAY. Sand is fine. Gravel is fine.	26.2	39	23	16	99	CIM	2	1
WS08	1.20	D1	D	Reddish brown slightly gravelly sandy silty CLAY. Sand is fine. Gravel is fine.	14.6	36	19	17	99	CIM	2	1
WS08	2.90	D3	D	Reddish brown slightly gravelly sandy silty CLAY. Sand is fine. Gravel is fine.	12.3	29	19	10	99	CIL	2	1
WS12	2.80	D2	D	Reddish brown and grey sandy silty CLAY. Sand is fine.	13.1	29	18	11	100	CIL	2	1
WS13	2.00-2.45	D2	D	Reddish brown and grey mottled yellowish brown sandy silty CLAY. Sand is fine.	11.8	26	15	11	98	CIL	2	1
WS17	1.20-1.65	D1	D	Reddish brown and grey gravelly sandy silty CLAY. Sand is fine. Gravel is fine to medium.	13.0	31	15	16	98	CIL	2	1
WS19A	1.20-1.65	D1	D	Reddish brown and grey gravelly sandy silty CLAY. Sand is fine. Gravel is fine to medium.	9.3	28	14	14	83	CIL	2	3
WS20	1.20-1.65	D1	D	Reddish brown and grey sandy silty CLAY. Sand is fine.	11.6	31	15	16	98	CIL	2	1
WS20	2.70	D3	D	Reddish brown and grey gravelly sandy silty CLAY. Sand is fine. Gravel is fine to medium.	11.7	31	19	12	55	CIL	2	3
WS21	2.50	D4	D	Reddish brown and grey gravelly sandy silty CLAY. Sand is fine. Gravel is fine to medium.	12.7	31	19	12	64	CIL	2	3
WS22	0.70	D1	D	Light grey mottled orangish brown sandy silty CLAY. Sand is fine.	22.2	44	20	24	100	CIM	2	1
WS27	0.70	D1	D	Brown and orangish brown and grey slightly gravelly sandy silty CLAY. Sand is fine. Gravel is fine to medium.	20.7	40	21	19	98	CIM	2	1

Test Type: 2 - 4 point 80g / 30° fall cone method.

Sample condition: 1 - As Received
2 - Air Dried
3 - Washed & Air Dried

Checked and Approved by:

*S Burke*S Burke - Senior Technician
06/10/2025

Project Number:

GEO / 43308

Project Name:

WYTHENSHAW
51143/01

GEOLABS®



PARTICLE SIZE DISTRIBUTION

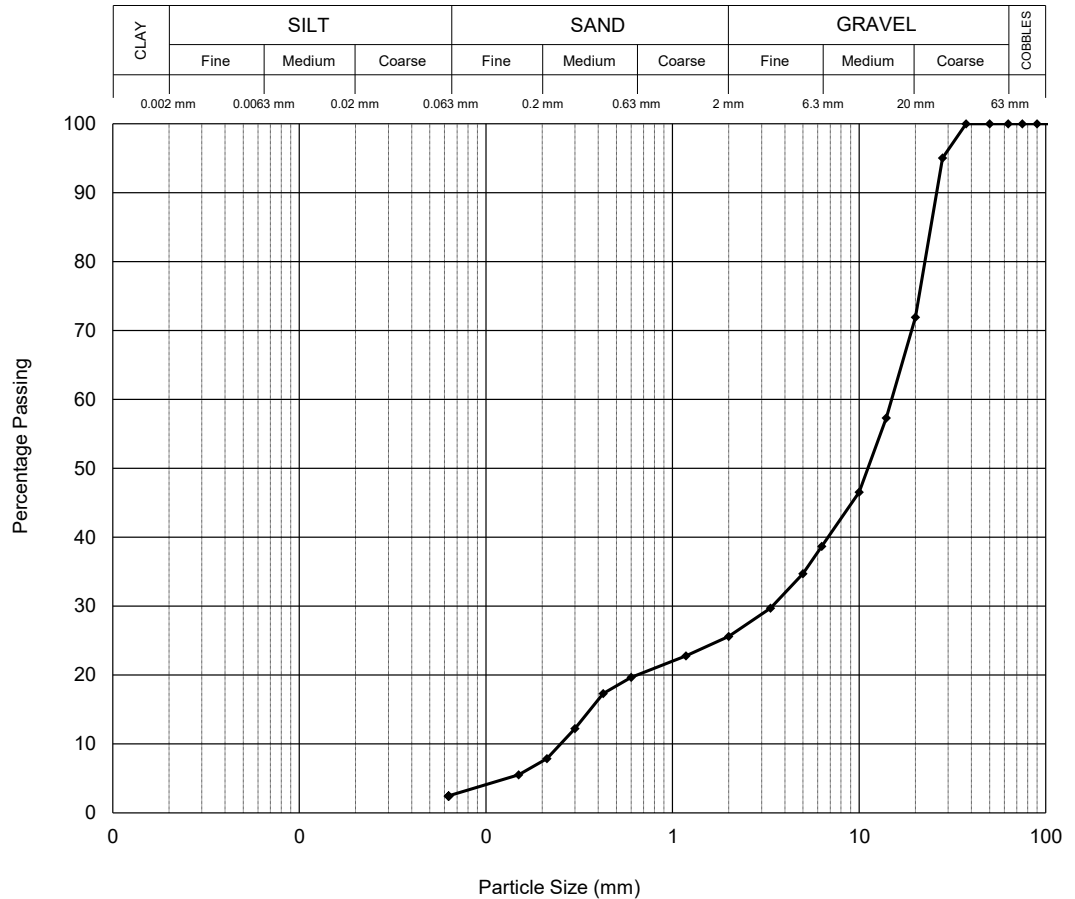
Location RC05
 Sample Depth 0.40 m
 Sample Type B

Description

Red brown very sandy GRAVEL.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	95
20.0 mm	72
14.0 mm	57
10.0 mm	47
6.30 mm	39
5.00 mm	35
3.35 mm	30
2.00 mm	26
1.18 mm	23
600 µm	20
425 µm	17
300 µm	12
212 µm	8
150 µm	6
63 µm	2



Particle Proportions	
Cobbles	0.0
Gravel	74.4
Sand	23.1
Silt & Clay	2.5

Tested by XW
 Checked and Approved by

S Burke

S Burke - Senior Technician
 06/10/2025

Project Number:

GEO / 43308

Project Name:

WYTHENSHAW
51143/01



[illegible]

S Burke - Senior Technician
06/10/2025

WYTHENSHAWE
51143/01



Note: The dimensional requirements of flatness (<0.02 mm), perpendicularity (<0.05 / 50 mm) and straightness (0.3 mm deviation) are all met. Specific Gravity used for Degree of Saturation is assumed unless specified by the client.

982

UNCONFINED COMPRESSIVE STRENGTH WITH YOUNG'S MODULUS AND POISSON'S RATIO

Borehole Ref.: RC01
Sample Ref.: -
Depth (m): 8.29-8.55

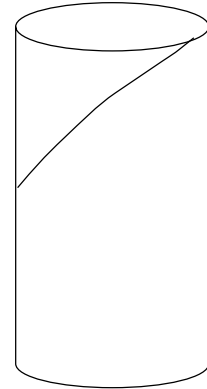
Description:
Extremely weak reddish brown MUDSTONE. Slightly weathered

Diameter	100.50 mm
Height	228.70 mm
Bulk Density	2.32 Mg/m ³
Dry Density	2.09 Mg/m ³
Water Content	11 %
Degree of Saturation: 83.0 %	Specific Gravity: 2.9 Mg/m ³ (Assumed)

LF0879C (1000kN) compression frame used

Failure Sketch

Mode of failure: Diagonal shearing



Solid lines for material failures.
Dashed lines for apparent weakness failure.

Angle of foliation/Axis of loading: n/a
Angle of shear plane/Axis of loading: n/a

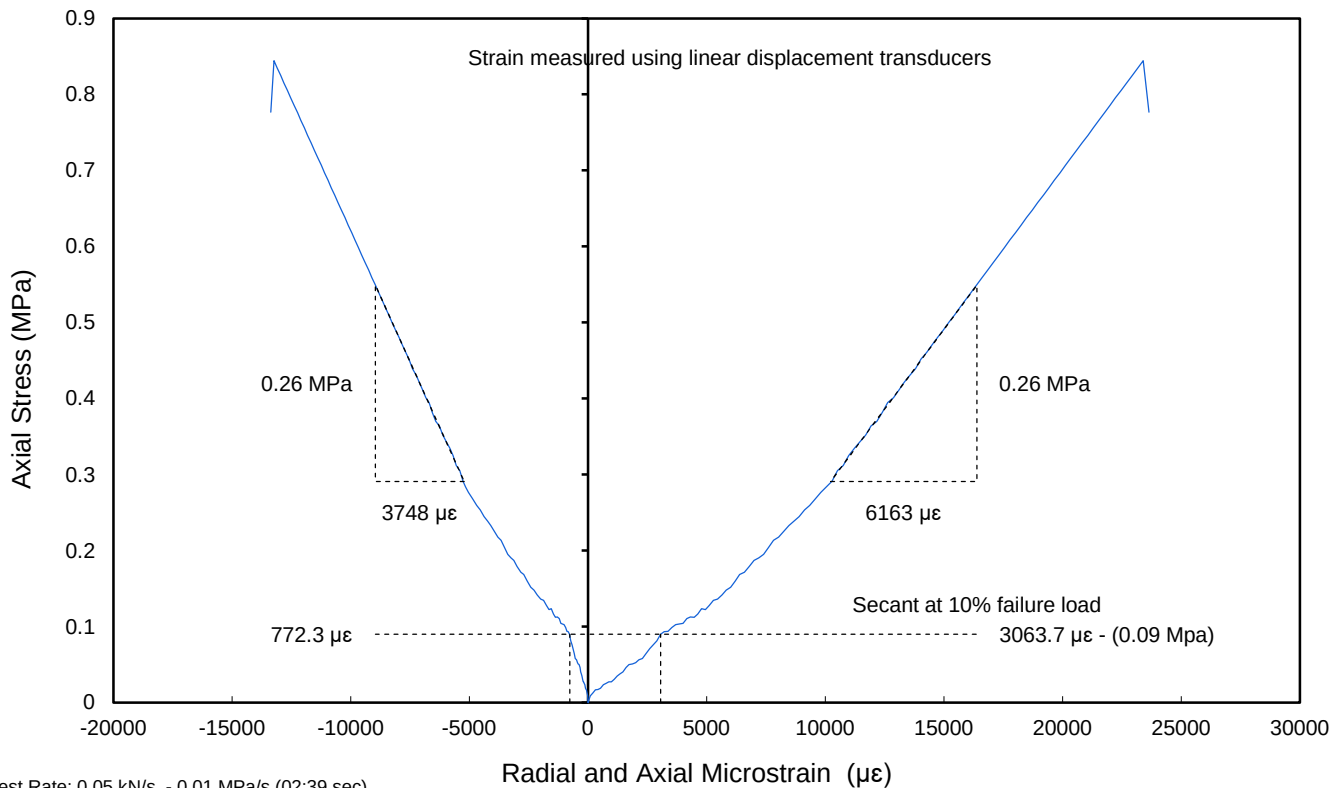
Date tested: 08/10/2025

Test results

Unconfined Compressive Strength Maximum load (kN): 6.70	0.845 MPa
Young's Modulus (tangential at 50% failure load)	0.0419 GPa
Poisson's Ratio (tangential at 50% failure load)	0.61
Young's Modulus (secant at 10% failure load)	0.0294 GPa
Poisson's Ratio (secant at 10% failure load)	0.25

Sample type

C



Test Rate: 0.05 kN/s - 0.01 MPa/s (02:39 sec)

Remarks: Nonstandard test as sample H/D ratio did not meet the required minimum of 2.5:1

Note: The dimensional requirements of Flatness (<0.02 mm), Perpendicularity (<0.05 / 50 mm) and Straightness (0.3 mm deviation) are all met.

Checked and Approved by

IT

I Tabios (Head of Department)

Date: 09/10/2025

Project Number:

GEO / 43308

Project Name:

WYTHENSHAW
51143/01

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DETERMINATION OF POINT LOAD STRENGTH ON ROCK

Sample details				Point Load test											
Borehole Ref.	Sample Ref.	Depth (m)	Description	D. Tested	Test type & Direction		Sample width W (mm)	Platen separation (mm)		Water Content (%)	Equiv. Diameter D _e (mm)	Failure Load P (kN)	I _s P/De ² (MPa)	Correction Factor F	Point Load Index I _{s(50)} (MPa)
								Start D	End D'						
RC03		3.85-3.94	Extremely weak dark brown MUDSTONE. Slightly weathered	07/10/25	A	U	98.0	71.8	70.4		93.7	0.14	0.02	1.33	0.03
RC03		7.05-7.25	Extremely weak to very weak thinly laminated brown and grey MUDSTONE. Slightly weathered	08/10/25	D	L	98.6	98.6	98.2		98.4	0.21	0.02	1.36	0.03
				08/10/25	A	P	99.9	89.9	88.9		106.3	0.59	0.05	1.40	0.07
				08/10/25	A	P	99.8	88.8	86.8		105.0	0.21	0.02	1.40	0.03
RC03		8.74-8.85	Very weak thinly laminated brown MUDSTONE. Slightly weathered	07/10/25	A	P	100.0	50.7	49.5		79.4	0.52	0.08	1.23	0.1
RC02		5.40-5.44	Very weak thinly laminated brown and grey MUDSTONE. Slightly weathered	07/10/25	I	P	37.1	37.1	36.1		41.3	0.15	0.09	0.92	0.08
RC02		7.10-7.18	Very weak thinly laminated brown and grey MUDSTONE. Slightly weathered	07/10/25	A	P	100.0	36.9	35.5		67.2	0.72	0.16	1.14	0.18
RC02		8.07-8.16	Very weak thinly laminated brown fine grained SANDSTONE / MUDSTONE. Slightly weathered	07/10/25	A	P	101.4	47.1	44.6		75.9	0.69	0.12	1.21	0.14
RC02		9.75-10.00	Extremely weak to very weak thinly laminated brown and yellowish brown MUDSTONE. Slightly weathered	08/10/25	D	L	100.6	100.6	99.6		100.1	0.25	0.02	1.37	0.03
				08/10/25	A	P	100.5	87.6	84.9		104.2	0.96	0.09	1.39	0.13

(*) Sample failed on weakness

Test type and direction: **D** - Diametral **A** - Axial **B** - Block **I** - Irregular lump **P** - Perpendicular to planes of weakness **U** - Random or unknown orientation **L** - Parallel to planes of weakness

Checked and Approved by

IT

I Tabios (Head of Department)

Date: 09/10/2025

Project Number:

Project Name:

GEO / 43308**WYTHENSHAW
51143/01**

DETERMINATION OF POINT LOAD STRENGTH ON ROCK

Sample details				Point Load test											
Borehole Ref.	Sample Ref.	Depth (m)	Description	D. Tested	Test type & Direction		Sample width W (mm)	Platen separation (mm)		Water Content (%)	Equiv. Diameter D _e (mm)	Failure Load P (kN)	I _s P/De ² (MPa)	Correction Factor F	Point Load Index I _{s(50)} (MPa)
								Start D	End D'						
RC02		9.75-10.00	Determination 3	08/10/25	A	P	100.2	65.0	63.5		90.0	0.22	0.03	1.30	0.04
RC02		11.12-11.17	Extremely weak thinly laminated brown MUDSTONE. Slightly weathered	07/10/25	A	P	100.6	53.1	51.0		80.8	0.22	0.03	1.24	0.04
RC06		3.87-3.95	Weak thinly laminated brown MUDSTONE. Slightly weathered	07/10/25	A	P	99.0	30.5	29.2		60.7	2.60	0.71	1.09	0.77
RC06		4.57-4.74	Extremely weak brown MUDSTONE. Slightly weathered	07/10/25	D	U	100.5	100.3	97.1		98.7	0.33	0.03	1.36	0.04
RC06		7.05-7.10	Weak thinly laminated yellowish brown MUDSTONE. Slightly weathered	07/10/25	A	P	100.3	30.8	26.9		58.6	1.77	0.51	1.07	0.55
RC06		10.03-10.12	Weak thinly laminated brown and grey MUDSTONE. Slightly weathered	07/10/25	I	P	44.9	36.8	34.6		44.5	1.72	0.87	0.95	0.83
RC06		12.81-12.98	Extremely weak thinly laminated brown and yellowish brown MUDSTONE. Slightly weathered	08/10/25	D	L	98.8	98.8	97.8		98.3	0.16	0.02	1.36	0.03
			Determination 2	08/10/25	A	P	98.2	49.6	48.0		77.5	0.61	0.10	1.22	0.12
			Determination 3	08/10/25	A	P	101.3	44.1	41.6		73.2	0.44	0.08	1.19	0.09
RC01		9.09-9.12	Very weak thinly laminated brown MUDSTONE. Slightly weathered	07/10/25	A	P	99.3	99.3	99.0		111.9	0.99	0.08	1.44	0.11

(*) Sample failed on weakness

Test type and direction: **D** - Diametral **A** - Axial **B** - Block **I** - Irregular lump **P** - Perpendicular to planes of weakness **U** - Random or unknown orientation **L** - Parallel to planes of weakness

Checked and Approved by  I Tabios (Head of Department) Date: 09/10/2025	Project Number: GEO / 43308	 
	Project Name: WYTHENSHAW 51143/01	

DETERMINATION OF POINT LOAD STRENGTH ON ROCK

Sample details				Point Load test											
Borehole Ref.	Sample Ref.	Depth (m)	Description	D. Tested	Test type & Direction		Sample width W (mm)	Platen separation (mm)		Water Content (%)	Equiv. Diameter D _e (mm)	Failure Load P (kN)	I _s P/De ² (MPa)	Correction Factor F	Point Load Index I _{s(50)} (MPa)
								Start D	End D'						
RC01		15.14-15.23	Weak thinly laminated brown and grey MUDSTONE. Slightly weathered	07/10/25	A	P	96.5	43.3	41.9		71.8	1.17	0.23	1.18	0.27
RC05		3.63-3.72	Very weak thinly laminated brown MUDSTONE. Slightly weathered	07/10/25	A	P	97.2	57.2	56.6		83.7	1.33	0.19	1.26	0.24
RC05		6.94-7.07	Very weak to weak brown MUDSTONE. Slightly weathered	08/10/25	D	U	99.6	98.7	96.5		97.6	1.36	0.14	1.35	0.19
				08/10/25	A	U	100.1	56.8	55.2		83.9	2.22	0.31	1.26	0.39
				08/10/25	A	U	102.2	57.5	54.6		84.3	1.78	0.25	1.26	0.32
RC05		7.07-7.21	Very weak brown MUDSTONE. Slightly weathered	07/10/25	D	U	99.4	98.5	97.0		97.7	0.52	0.05	1.35	0.07
RC05		8.28-8.33	Weak thinly laminated brown MUDSTONE. Slightly weathered	07/10/25	I	P	76.9	40.9	37.7		60.8	0.77	0.21	1.09	0.23
RC05		8.51-8.60	Extremely weak to very weak thinly laminated brown MUDSTONE. Slightly weathered	08/10/25	D	L	100.6	100.6	98.6		99.6	0.18	0.02	1.36	0.03
				08/10/25	I	P	68.2	52.0	50.5		66.2	0.84	0.19	1.13	0.22
				08/10/25	I	P	74.7	34.6	32.9		55.9	0.19	0.06	1.05	0.06

(*) Sample failed on weakness

 Test type and direction: **D** - Diametral **A** - Axial **B** - Block **I** - Irregular lump **P** - Perpendicular to planes of weakness **U** - Random or unknown orientation **L** - Parallel to planes of weakness

Checked and Approved by  I Tabios (Head of Department) Date: 09/10/2025	Project Number: GEO / 43308 Project Name: WYTHENSHAW 51143/01	 
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e: info-i2analytical@normecgroup.com

Analytical Report Number : 25-046531

Project / Site name:	Wythenshawe	Samples received on:	11/08/2025
Your job number:	51143	Samples instructed on/ Analysis started on:	29/08/2025
Your order number:	PO 0344	Analysis completed by:	11/09/2025
Report Issue Number:	1	Report issued on:	11/09/2025
Samples Analysed:	23 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
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
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665443	665444	665445	665446	665447
Sample Reference	WS01	WS02A	WS12	WS13	WS17
Sample Number	D2	D2	D1	D1	D2
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.80	1.70	2.00-2.45	1.70	1.80
Date Sampled	05/08/2025	05/08/2025	07/08/2025	07/08/2025	07/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	12	8.6	12	13
Total mass of sample received	kg	0.1	NONE	1.2	1.2	0.5	0.5	1.2

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.4	7.7	7.5	7.1	7
Total Sulphate as SO ₄	%	0.005	MCERTS	0.04	0.036	0.024	0.017	0.019
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	37	130	26	39	43
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent	mg/l	1.25	MCERTS	18.3	62.6	13	19.4	21.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.2	1.5	9.3	10	22
Total Sulphur	mg/kg	50	MCERTS	130	110	90	< 50	79
Total Sulphur	%	0.005	MCERTS	0.013	0.011	0.009	< 0.005	0.008
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	4.7	9.2	9.4	8.3	9.7
Magnesium (water soluble)	mg/kg	5	NONE	9.4	19	19	17	19

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665448	665449	665450	665451	665723
Sample Reference	WS18	WS18	WS19A	WS20	WS05
Sample Number	D1	D2	D2	D2	D1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.70	3.00-3.40	1.60	1.80	1.50
Date Sampled	07/08/2025	07/08/2025	06/08/2025	06/08/2025	05/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	13	9.9	12	20
Total mass of sample received	kg	0.1	NONE	0.5	0.5	1.2	0.5	0.1

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.3	8.3	7.7	7.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.035	0.027	0.046	0.021	0.085
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	32	20	57	58	530
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	16.1	9.83	28.7	28.8	265
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.3	4.5	17	13	28
Total Sulphur	mg/kg	50	MCERTS	110	91	130	67	770
Total Sulphur	%	0.005	MCERTS	0.011	0.009	0.013	0.007	0.077
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	17	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	8.7	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	5	4.8	3.7	7.3	12
Magnesium (water soluble)	mg/kg	5	NONE	10	9.5	7.3	15	25

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665724	665725	665726	665727	665728
Sample Reference	WS05	WS07	WS08	WS08	WS15
Sample Number	D2	D1	D2	D3	D3
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	2.30	1.20	1.90	2.00	2.60
Date Sampled	05/08/2025	05/08/2025	05/08/2025	05/08/2025	05/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	50	7.5	17	14	14
Total mass of sample received	kg	0.1	NONE	0.1	0.4	0.4	0.5	0.4

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.8	8.2	8.3	8.1	8.1
Total Sulphate as SO ₄	%	0.005	MCERTS	0.252	0.014	0.022	0.019	0.045
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1900	34	66	56	15
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	965	17.1	33.2	28.2	7.72
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	130	1.2	2.1	2.1	1.3
Total Sulphur	mg/kg	50	MCERTS	5300	81	83	89	170
Total Sulphur	%	0.005	MCERTS	0.527	0.008	0.008	0.009	0.017
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	66	5.9	9.2	25	5.6
Magnesium (water soluble)	mg/kg	5	NONE	130	12	18	50	11

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665729	665730	665731	665732	665733
Sample Reference	WS21	WS24	WS25	WS26	WS26
Sample Number	D3	D2	D2	D1	D3
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.60	1.80	2.60	1.20	3.00
Date Sampled	05/08/2025	05/08/2025	05/08/2025	05/08/2025	05/08/2025
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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	18	29	11	7.1
Total mass of sample received	kg	0.1	NONE	0.4	0.5	0.3	0.4	0.4

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.9	8.4	6.6	6.8	8.3
Total Sulphate as SO ₄	%	0.005	MCERTS	0.031	0.067	0.12	0.015	0.042
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	46	450	850	38	22
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent	mg/l	1.25	MCERTS	23.2	224	427	19.1	11.1
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	49	3.1	32	20	8.7
Total Sulphur	mg/kg	50	MCERTS	130	1100	1600	71	150
Total Sulphur	%	0.005	MCERTS	0.013	0.106	0.16	0.007	0.015
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	35	21	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	18	11	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	18	23	47	12	7.9
Magnesium (water soluble)	mg/kg	5	NONE	36	47	95	25	16

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

Analytical Report Number: 25-046531
Project / Site name: Wythenshawe
Your Order No: PO 0344

Lab Sample Number	665734	665735	665736
Sample Reference	WS27	WS28	WS8
Sample Number	D2	D1	D3
Water Matrix	N/A	N/A	N/A
Depth (m)	1.50	0.70	1.40
Date Sampled	05/08/2025	05/08/2025	05/08/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	15	17
Total mass of sample received	kg	0.1	NONE	0.6	0.4	0.5

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	8.9	8.3
Total Sulphate as SO ₄	%	0.005	MCERTS	0.018	0.018	0.021
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	24	30	31
Water Soluble SO ₄ 16hr extraction (2:1) Leachate Equivalent	mg/l	1.25	MCERTS	11.8	14.8	15.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	18	34	54
Total Sulphur	mg/kg	50	MCERTS	81	68	74
Total Sulphur	%	0.005	MCERTS	0.008	0.007	0.007
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	6.3	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	5.4	13	12
Magnesium (water soluble)	mg/kg	5	NONE	11	26	25

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

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

* 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 *
665443	WS01	D2	1.8	Brown clay and loam
665444	WS02A	D2	1.7	Brown clay and loam
665445	WS12	D1	2.00-2.45	Brown clay and loam
665446	WS13	D1	1.7	Brown clay and loam with gravel
665447	WS17	D2	1.8	Brown clay and loam with gravel
665448	WS18	D1	2.7	Brown clay and loam
665449	WS18	D2	3.00-3.40	Brown clay and loam
665450	WS19A	D2	1.6	Brown clay and loam
665451	WS20	D2	1.8	Brown clay and loam with gravel
665723	WS05	D1	1.5	Brown loam and clay with gravel and vegetation
665724	WS05	D2	2.3	Brown loam and clay with gravel and vegetation
665725	WS07	D1	1.2	Brown clay and sand with gravel
665726	WS08	D2	1.9	Brown clay and sand
665727	WS08	D3	2	Brown clay and sand
665728	WS15	D3	2.6	Brown clay and sand
665729	WS21	D3	1.6	Brown clay and sand
665730	WS24	D2	1.8	Brown clay and sand with gravel
665731	WS25	D2	2.6	Brown loam and clay with gravel
665732	WS26	D1	1.2	Brown clay and sand with gravel
665733	WS26	D3	3	Brown clay and sand with gravel
665734	WS27	D2	1.5	Brown clay and sand with gravel
665735	WS28	D1	0.7	Brown clay and sand with gravel
665736	WS8	D3	1.4	Brown clay and sand with gravel

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
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
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

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.

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

The result for sum should be interpreted with caution

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS01	D2	S	665443	c	Chloride, water soluble, in soil	L082B	c
WS01	D2	S	665443	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS01	D2	S	665443	c	Total Sulphur in soil	L038B	c
WS01	D2	S	665443	c	Total sulphate (as SO4 in soil)	L038B	c
WS01	D2	S	665443	c	pH in soil (automated)	L099-PL	c
WS02A	D2	S	665444	c	Chloride, water soluble, in soil	L082B	c
WS02A	D2	S	665444	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS02A	D2	S	665444	c	Total Sulphur in soil	L038B	c
WS02A	D2	S	665444	c	Total sulphate (as SO4 in soil)	L038B	c
WS02A	D2	S	665444	c	pH in soil (automated)	L099-PL	c
WS05	D1	S	665723	c	Chloride, water soluble, in soil	L082B	c
WS05	D1	S	665723	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS05	D1	S	665723	c	Total Sulphur in soil	L038B	c
WS05	D1	S	665723	c	Total sulphate (as SO4 in soil)	L038B	c
WS05	D1	S	665723	c	pH in soil (automated)	L099-PL	c
WS05	D2	S	665724	c	Chloride, water soluble, in soil	L082B	c
WS05	D2	S	665724	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS05	D2	S	665724	c	Total Sulphur in soil	L038B	c
WS05	D2	S	665724	c	Total sulphate (as SO4 in soil)	L038B	c
WS05	D2	S	665724	c	pH in soil (automated)	L099-PL	c
WS07	D1	S	665725	c	Chloride, water soluble, in soil	L082B	c
WS07	D1	S	665725	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS07	D1	S	665725	c	Total Sulphur in soil	L038B	c
WS07	D1	S	665725	c	Total sulphate (as SO4 in soil)	L038B	c
WS07	D1	S	665725	c	pH in soil (automated)	L099-PL	c
WS08	D2	S	665726	c	Chloride, water soluble, in soil	L082B	c
WS08	D2	S	665726	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS08	D2	S	665726	c	Total Sulphur in soil	L038B	c
WS08	D2	S	665726	c	Total sulphate (as SO4 in soil)	L038B	c
WS08	D2	S	665726	c	pH in soil (automated)	L099-PL	c
WS08	D3	S	665727	c	Chloride, water soluble, in soil	L082B	c
WS08	D3	S	665727	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS08	D3	S	665727	c	Total Sulphur in soil	L038B	c
WS08	D3	S	665727	c	Total sulphate (as SO4 in soil)	L038B	c
WS08	D3	S	665727	c	pH in soil (automated)	L099-PL	c
WS12	D1	S	665445	c	Chloride, water soluble, in soil	L082B	c
WS12	D1	S	665445	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS12	D1	S	665445	c	Total Sulphur in soil	L038B	c
WS12	D1	S	665445	c	Total sulphate (as SO4 in soil)	L038B	c
WS12	D1	S	665445	c	pH in soil (automated)	L099-PL	c
WS13	D1	S	665446	c	Chloride, water soluble, in soil	L082B	c
WS13	D1	S	665446	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS13	D1	S	665446	c	Total Sulphur in soil	L038B	c
WS13	D1	S	665446	c	Total sulphate (as SO4 in soil)	L038B	c
WS13	D1	S	665446	c	pH in soil (automated)	L099-PL	c
WS15	D3	S	665728	c	Chloride, water soluble, in soil	L082B	c
WS15	D3	S	665728	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS15	D3	S	665728	c	Total Sulphur in soil	L038B	c
WS15	D3	S	665728	c	Total sulphate (as SO4 in soil)	L038B	c
WS15	D3	S	665728	c	pH in soil (automated)	L099-PL	c
WS17	D2	S	665447	c	Chloride, water soluble, in soil	L082B	c
WS17	D2	S	665447	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS17	D2	S	665447	c	Total Sulphur in soil	L038B	c
WS17	D2	S	665447	c	Total sulphate (as SO4 in soil)	L038B	c
WS17	D2	S	665447	c	pH in soil (automated)	L099-PL	c
WS18	D1	S	665448	c	Chloride, water soluble, in soil	L082B	c

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS18	D1	S	665448	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS18	D1	S	665448	c	Total Sulphur in soil	L038B	c
WS18	D1	S	665448	c	Total sulphate (as SO4 in soil)	L038B	c
WS18	D1	S	665448	c	pH in soil (automated)	L099-PL	c
WS18	D2	S	665449	c	Chloride, water soluble, in soil	L082B	c
WS18	D2	S	665449	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS18	D2	S	665449	c	Total Sulphur in soil	L038B	c
WS18	D2	S	665449	c	Total sulphate (as SO4 in soil)	L038B	c
WS18	D2	S	665449	c	pH in soil (automated)	L099-PL	c
WS19A	D2	S	665450	c	Chloride, water soluble, in soil	L082B	c
WS19A	D2	S	665450	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS19A	D2	S	665450	c	Total Sulphur in soil	L038B	c
WS19A	D2	S	665450	c	Total sulphate (as SO4 in soil)	L038B	c
WS19A	D2	S	665450	c	pH in soil (automated)	L099-PL	c
WS20	D2	S	665451	c	Chloride, water soluble, in soil	L082B	c
WS20	D2	S	665451	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS20	D2	S	665451	c	Total Sulphur in soil	L038B	c
WS20	D2	S	665451	c	Total sulphate (as SO4 in soil)	L038B	c
WS20	D2	S	665451	c	pH in soil (automated)	L099-PL	c
WS21	D3	S	665729	c	Chloride, water soluble, in soil	L082B	c
WS21	D3	S	665729	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS21	D3	S	665729	c	Total Sulphur in soil	L038B	c
WS21	D3	S	665729	c	Total sulphate (as SO4 in soil)	L038B	c
WS21	D3	S	665729	c	pH in soil (automated)	L099-PL	c
WS24	D2	S	665730	c	Chloride, water soluble, in soil	L082B	c
WS24	D2	S	665730	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS24	D2	S	665730	c	Total Sulphur in soil	L038B	c
WS24	D2	S	665730	c	Total sulphate (as SO4 in soil)	L038B	c
WS24	D2	S	665730	c	pH in soil (automated)	L099-PL	c
WS25	D2	S	665731	c	Chloride, water soluble, in soil	L082B	c
WS25	D2	S	665731	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS25	D2	S	665731	c	Total Sulphur in soil	L038B	c
WS25	D2	S	665731	c	Total sulphate (as SO4 in soil)	L038B	c
WS25	D2	S	665731	c	pH in soil (automated)	L099-PL	c
WS26	D1	S	665732	c	Chloride, water soluble, in soil	L082B	c
WS26	D1	S	665732	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS26	D1	S	665732	c	Total Sulphur in soil	L038B	c
WS26	D1	S	665732	c	Total sulphate (as SO4 in soil)	L038B	c
WS26	D1	S	665732	c	pH in soil (automated)	L099-PL	c
WS26	D3	S	665733	c	Chloride, water soluble, in soil	L082B	c
WS26	D3	S	665733	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS26	D3	S	665733	c	Total Sulphur in soil	L038B	c
WS26	D3	S	665733	c	Total sulphate (as SO4 in soil)	L038B	c
WS26	D3	S	665733	c	pH in soil (automated)	L099-PL	c
WS27	D2	S	665734	c	Chloride, water soluble, in soil	L082B	c
WS27	D2	S	665734	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS27	D2	S	665734	c	Total Sulphur in soil	L038B	c
WS27	D2	S	665734	c	Total sulphate (as SO4 in soil)	L038B	c
WS27	D2	S	665734	c	pH in soil (automated)	L099-PL	c
WS28	D1	S	665735	c	Chloride, water soluble, in soil	L082B	c
WS28	D1	S	665735	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS28	D1	S	665735	c	Total Sulphur in soil	L038B	c
WS28	D1	S	665735	c	Total sulphate (as SO4 in soil)	L038B	c
WS28	D1	S	665735	c	pH in soil (automated)	L099-PL	c
WS8	D3	S	665736	c	Chloride, water soluble, in soil	L082B	c
WS8	D3	S	665736	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c

Analytical Report Number : 25-046531

Project / Site name: Wythenshawe

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS8	D3	S	665736	c	Total Sulphur in soil	L038B	c
WS8	D3	S	665736	c	Total sulphate (as SO ₄ in soil)	L038B	c
WS8	D3	S	665736	c	pH in soil (automated)	L099-PL	c

TESTING RESTRICTION

The following tests have been scheduled on the below project. Those listed **CANNOT** be performed for the reason stated. If alternative samples are available for the restricted tests, please supply details.

Sample details				Tests restricted	Reason for restriction and comments
Borehole Ref.	Sample Ref.	Depth (m)	Description		
RC03		6.00-7.50	n/a	UCS	Sample H/D ratio (2:1) is below the minimum required 2.5:1. Do we continue test as nonstandard?
RC02		9.00-10.50	n/a	UCS w/ YM and PR	Sample very fragile and already showing signs of failure before test.
RC06		12.00-13.50	n/a	UCS	Sample H/D ratio (1.7:1) is below the minimum required 2.5:1.
RC05		6.00-7.50	n/a	UCS	Sample H/D ratio (less than 1:1) is below the minimum required 2.5:1.
RC05		7.50-9.00	n/a	UCS w/ YM and PR	Sample H/D ratio (less than 1:1) is below the minimum required 2.5:1.

Checked and Approved by

IT

I Tabios (Head of Department)

Date: 07/10/2025

Project Number:

GEO / 43308

Project Name:

WYTHENSHAWE

51143/01

