Chorlton Baths
Site Completion Report

Job Number	Report Date	Client
LKC241317	**23rd September 2026**	**Caddick Construction (NW) Ltd**

DOCUMENT QUALITY ASSURANCE

Site Address	3 Cavendish Terrace, Chorlton-cum-Hardy, Manchester M21 0UA.
Report Title	Site Completion Report
Job Number	LKC241317
Client	Caddick Construction (NW) Ltd

Revision	0	**Date of Issue**	23rd September 2026
Document Ref:	LKC241317-D1-SCR-Chorlton Baths, R0		
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Written By	Michael Berry		
Approved By	Peter Dunn		

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Other works including inter alia hotspot removal, drainage, soil texture, nutrients, permitting, invasive species management and geotechnical requirements are out with this scope and should be dealt with by others.

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1. Introduction

LK Consult Ltd (LKC) has been commissioned to provide a Site Completion Report for Chorlton Baths.

A summary of the site details is presented in Table 1-1. Figure 1 indicates the site location and boundary plan. Figure 2 indicates the proposed development.

Location	Former Chorlton Leisure Centre, in between Manchester Road and the South Manchester Rail Line, Chorlton-Cum-Hardy. National Grid Reference 381706E 394517N.
Area	3,400m^2.
Planning Reference	136791/FO/2023
Proposed Development	Erection of 2 no. 5 storey residential buildings comprising 50 no. dwellings (Class C3) with ancillary communal facilities; and, associated access, car parking, bin store, amenity space and landscaping, following the demolition of the existing building

Table 1-1: Summary of site details.

The aim of the Site Completion Report will be to demonstrate to the Local Authority that the site has been suitably remediated in line with the Remediation Statement and in accordance with the National Planning Policy Framework (NPPF)[1], where the site is 'suitable for use' for the proposed development.

The Site Completion Report should be sufficient to satisfy Contaminated Land Condition 12. Details are provided in the following Sections.

1.1. Summary of Previous Work

The following reports have been undertaken for the site:

- Phase 1 Preliminary Risk Assessment (PRA) report, undertaken by Carley and Daines and Partners Ltd (Ref: 23-B-13672/Chorlton Baths dated 6th March 2023).
- Phase 2 Geoenvironmental Report, undertaken by CC Geotechnical Ltd (Ref: CCG-C-24-14500 dated May 2024).
- Interim Phase 2 Geo-environmental Investigation & Risk Assessment, undertaken by LKC (Ref: LKC241317-BX-GI-Chorlton Baths, Manchester R0 dated 4th October 2024).
- Final Phase 2 Geo-Environmental Investigation Risk Assessment & Remediation Strategy (Ref: LKC241317-B1-GI-Chorlton Baths, Manchester R2, dated April 2025).

The findings of the above reports have been agreed by Manchester City Council (Ref: CDN/25/0661).

In addition to the above ground investigation and risk assessment works, LK Remediate have undertaken demolition and remediation in line with the above specifications. Their works entailed, *inter alia* demolition of the building, Japanese Knotweed remediation, site wide cut/ fill, generation of recycled aggregates, placing geotextile membrane and construction platforms.

The detail and verification of the LKR enabling works is included in the report below. It is assumed this report has been agreed with the local authority.

- Land Remediation Verification Report, undertaken by LK Remediate (Ref: LKR241027, dated 25th March 2025).

1.2. Summary of Required Validation Work

Based upon the findings of the above the following validation was required:

- In soft landscaping areas, an environmental cover system will be required and should comprise 450mm in private front gardens / soft landscaping (including community garden).
- Chemical validation of all imported soils to be used in gardens and soft landscaping.

- Information on the installation of any protective water pipes.
- Provision of disposal tickets if any material is removed offsite.
- Details of any unexpected contamination.

This is detailed in the following Sections.

2. Environmental Capping Layer Material

2.1. Sampling Methodology

2.1.1. Topsoil

Approximately 113m^3 of topsoil was imported to site from Cheshire Soils and Aggregates Ltd of Suite 1, Unit 2, Edward Court, Altrincham Business Park, Altrincham, WA14 5GL.

To comply with the agreed sampling rate for a brownfield / unknown source of 1 sample per 150m^3 or minimum of 3no. samples per source, LKC collected 3no. composite samples of topsoil (referenced TS101 to TS103) on the 17th August 2026.

To confirm the material was chemically suitable, the samples were tested for soil organic matter (SOM), metals (CLEA metal suite), Polycyclic Aromatic Hydrocarbons (EPA 16 PAHs), Total Petroleum Hydrocarbons (TPH CWC) and asbestos.

Standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation[2].

Soil samples of approximately 500g were recovered in amber jars and plastic tubs. All the samples were sent to DETS laboratory for chemical testing.

Many of the contamination tests are UKAS or MCERTS accredited and further details are given in the Certificate of Analysis presented in Appendix A.

2.1.2. Subsoil

Approximately 168m^3 of subsoil was imported to site from Cheshire Soils and Aggregates Ltd of Suite 1, Unit 2, Edward Court, Altrincham Business Park, Altrincham, WA14 5GL..

To comply with the agreed sampling rate for a brownfield / unknown source of 1 sample per 150m^3 or minimum of 3no. samples per source, LKC collected 3no. composite samples of subsoil (referenced SS101 to SS103) on the 2nd September 2026.

To confirm the material was chemically suitable, the samples were tested for soil organic matter (SOM), metals (CLEA metal suite), Polycyclic Aromatic Hydrocarbons (EPA 16 PAHs), Total Petroleum Hydrocarbons (TPH CWC) and asbestos.

Standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation[3].

Soil samples of approximately 500g were recovered in amber jars and plastic tubs. All the samples were sent to DETS laboratory for chemical testing.

Many of the contamination tests are UKAS or MCERTS accredited and further details are given in the Certificate of Analysis presented in Appendix A.

2.2. Soil Risk Assessment

2.2.1. Methodology

With regards to the soil validation screening values, LKC will use the following hierarchy, which is considered consistent with UK methodology for assessment using minimal or low risk:

- Category 4 Screening Levels (C4SLs) [4, 5].

- LQM Suitable 4 Use Levels (S4ULs) [6, 7, 8, 9].

The proposed development is for residential apartments with shared soft landscaping. Therefore, the assessment criteria for residential without plant uptake has been used.

All criteria have been generated using the CLEA V1.06 model[10] based either on 1%, 2.5% and 6% Soil Organic matter (SOM). Results will be compared to the nearest appropriate SOM.

A summary of the Generic Assessment Criteria Values used in this assessment is provided in Appendix B.

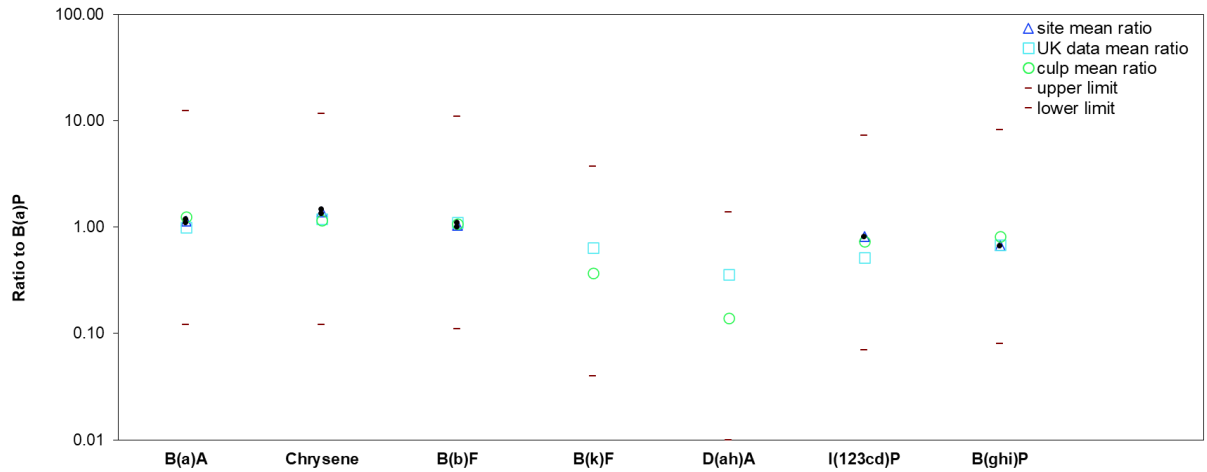
B(a)P as Surrogate Marker

LKC consider the main risk drivers for PAHs are benzo(a)pyrene (B(a)P) and naphthalene. This is due to B(a)P possibly being a carcinogen and most toxic of the PAHs[11,12] and naphthalene the most volatile and soluble[13]. The C4SLs indicate B(a)P as a surrogate marker for carcinogenic PAHs, if it falls within appropriate limits, since the risk from other non-carcinogenic PAHs are considered negligible[14]. For B(a)P to be used as a surrogate marker it should follow the profile described by the HPA (2008)[15] and CL:AIRE (2013). Naphthalene will be treated separately using the LQM S4ULs.

An assessment of the data should be undertaken to confirm B(a)P is a suitable surrogate marker by assessing the ratios of carcinogenic PAHs to B(a)P. However, as most of the topsoil sample PAHs were recorded as less than detection limits, the assessment could not be undertaken.

LKC undertook an assessment of the PAH data for the subsoil with regards to using B(a)P as a surrogate marker for carcinogenic PAHs as per HPA and CL:AIRE guidelines. The primary toxicological study related to Culp *et.al*[16], which was based on coal tar mixtures (>80,000mg/kg of total PAHs) fed in food to mice over a two-year carcinogenicity study.

Graph 3-1 summarises the subsoil data with respect to how the ratios of carcinogenic PAHs relate to B(a)P, within the confidence limits provided in the HPA document.



Graph 2-1: The ratio of PAH to B(a)P in soil for subsoil data at the site based on 6 samples (where values were >LOD to allow the calculation of a ratio).

Notes:

B(a)P=Benzo(a)pyrene; D(ah)A=Dibenzo(ah)anthracene; B(a)A=Benzo(a)anthracene; B(b)F=Benzo(b)fluoranthene; B(k)F=Benzo(k)fluoranthene; I(123cd)P=Indeno(123cd)pyrene; B(ghi)P=Benzo(ghi)perylene.

All the data points that could be used to calculate ratios fall inside the upper or lower limits.

Based on this distribution of data LKC considers B(a)P can be used as a surrogate marker for carcinogenic PAHs and the C4SL criteria is suitable for this dataset.

2.2.2. Soil Results Comparison against Generic Assessment Criteria

All analysis sheets are presented in Appendix A. Results have been compared to the relevant assessment criteria and no elevated contaminants were identified in the imported topsoil or subsoil and the material is considered suitable for use within the capping layers.

2.3. Depth of Cover System

The recommendation for the capping layer in soft landscaping areas was that it should comprise a minimum 450mm thickness of suitable soil over a geotextile membrane.

An inspection of the capping layer was carried out on the 4th and 11th September. Photographs are provided in Appendix C and the observations are summarised below in Table 3-1. A plan of the locations of the areas validated on site is present in Appendix C.

Location	Geotextile Present?	Topsoil Depth (mm)	Subsoil Depth (mm)	Total Depth (mm)	Required Depth (mm)	Pass (✓) or Fail (x)
TH1	✓	150	400	650	450	✓
TH2	✓	450	-	450	450	✓
TH3	✓	550	200	750	450	✓
TH4	✓	450	150	600	450	✓
TH5	✓	650	-	650	450	✓
TH6	✓	650	-	450	450	✓
TH7	✓	200	350	550	450	✓
TH8	✓	350	-	350*	450	✓*
TH9	✓	450	200	650	450	✓
TH10	✓	450	-	450	450	✓
TH11	✓	150	140	200*	450	✓*
TH12	✓	750	-	750	450	✓
TH13	✓	500	200	700	450	✓
TH14	✓	400	400	800	450	✓

Table 2-1: Summary of capping layer depths.
*Japanese knotweed was excavated along the eastern boundary to the underlying natural strata, and a geotextile membrane was installed. Verification of the removal works is provided in the LKR verification report. Following remediation, a further geotextile membrane was installed over the excavation and cover soils were placed to the depths recorded in Table 2-1.
**Note that topsoil was placed to greater thickness within raised planters.

Due to the presence of services (potable water pipe) and the very small area of soft landscaping, the full 450mm capping layer could not be achieved along the western edge of the site. LKC consider that as the services are backfilled with clean inert material, the topsoil and subsoil placed over a geotextile membrane is sufficient given the small size and anticipated minimal use of these areas of landscaping.

Furthermore, the area was covered with site geotextile membrane and generate aggregates during the enabling works, providing clean material and separation membrane to a suitable depth of cover. Description of enabling works and suitability of use of site generated aggregate is included in the LKR verification report.

LKC were able to verify that, in the places inspected within the soft landscaped areas, the cover layer soil has been appropriately validated and considered 'suitable for use'.

3. Service Entry Pipes

LKC understand that appropriate pipework has been connected through the site. LKC considers the potable pipework is suitable based on United Utilities (UU) undertaking the connection. UU would not connect if there were any concerns, and this is in line with LKC recommendation in the site investigation report. Photograph showing the installed pipework is provided in Appendix D.

4. Unexpected Contamination

LKC understand that no unexpected contamination was encountered during development works.

5. Conclusions

LKC consider that the work onsite to date has been validated in accordance with the agreed Remediation Strategy.

Based on the above information LKC considers the Chorlton Baths development site is 'suitable for use' for a residential development.

LKC considers there is sufficient information to discharge the outstanding contaminated land planning Condition 12 by Manchester City Council.

Figures





Client: Caddick Construction Ltd				Title: Site Location & Boundary Plan	LK CONSULT
Site: Chorlton Baths, Manchester				Scale (see scale bar): 1:25,000 & 1:1,250 @ A4	Figure: 1 / Revision:
Job No.: LKC241317	Drawn By: MB	Checked By: PD	Drawn: Nov 2024		



Extract From: Buttress
Drawing Ref: Proposed Site Plan, No.04100, Rev:P04 (07/08/2023)

KEY

- Site Boundary
- Root Protection Area
- Approx retained tree canopy line
- Existing tree removed where hatched in red
- Works to crown
- Proposed tree
- Refer to Tree Survey and reports by Lally Tree Management
- Application Site Boundary

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.

LK CONSULT LIMITED

Client: Caddick Construction (NW) Ltd

Site: Chorlton Baths, Manchester

Title: Proposed Development Plan

Job No.:	Scale (See Scale Bar):	Figure:	Revision:
LKC241317	See Scale Bar	2	

Drawn By:	Checked By:	Drawn:
AC	MB	Oct 2024

Appendix A – Laboratory Analysis Certificates

Certificate of Analysis

Certificate Number	26-21840	*Issued:*	17-Sep-26

Client LK Consult Limited
Unit 29
Eton Business Park
Eton Hill Road
Radcliffe
Manchester
M26 2ZS

Our Reference 26-21840

Client Reference ~ LKC241317

Order No ~ PO-C003514

Contract Title ~ Chorlton Baths

Description 3 Soil samples.

Date Received 03-Sep-26

Date Started 03-Sep-26

Date Completed 17-Sep-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By [redacted]

Reyhan Irfan
Operations Manager

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Summary of Chemical Analysis
Soil Samples

Our Ref 26-21840
Client Ref ~ LKC241317
Contract Title ~ Chorlton Baths

	Lab No	2744975	2744976	2744977
	Sample ID ~	SS101	SS102	SS103
	Depth ~			
	Other ID ~			
	Sample Type ~	SOIL	SOIL	SOIL
	Sampling Date ~	02/09/2026	02/09/2026	02/09/2026
	Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
Preparation						
Moisture Content	DETSC 1004	0.1	%	9.7	10	11
Metals						
Arsenic	DETSC 2301#	0.2	mg/kg	3.9	6.3	4.3
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.2	0.2	0.2
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	7.9	8.0	8.5
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	11	13	11
Lead	DETSC 2301#	0.3	mg/kg	9.8	13	9.5
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	10	10	13
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vanadium	DETSC 2301#	0.8	mg/kg	11	13	11
Zinc	DETSC 2301#	1	mg/kg	29	30	28
Inorganics						
pH	DETSC 2008#		pH	8.5	8.6	9.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	0.4	0.5	0.3
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	55	54	40
Petroleum Hydrocarbons						
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C10-C44: EH_CU_1D_AL	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aliphatic C5-C44: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4

Summary of Chemical Analysis
Soil Samples

Our Ref 26-21840
Client Ref ~ LKC241317
Contract Title ~ Chorlton Baths

	Lab No	2744975	2744976	2744977
	Sample ID ~	SS101	SS102	SS103
	Depth ~			
	Other ID ~			
	Sample Type ~	SOIL	SOIL	SOIL
	Sampling Date ~	02/09/2026	02/09/2026	02/09/2026
	Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
Aromatic C10-C44: EH_CU_1D_AR	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C44: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro C5-C44: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Ali/Aro C10-C44: EH_CU_1D_Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	0.04	0.04
Pyrene	DETSC 3303#	0.03	mg/kg	0.05	0.04	0.04
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.14	< 0.10	< 0.10
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3

Summary of Asbestos Analysis
Soil Samples

Our Ref 26-21840
Client Ref ~ LKC241317
Contract Title ~ Chorlton Baths

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2744975	SS101	SOIL	NAD	none	D Wilkinson
2744976	SS102	SOIL	NAD	none	D Wilkinson
2744977	SS103	SOIL	NAD	none	D Wilkinson

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 26-21840
Client Ref ~ LKC241317
Contract ~ Chorlton Baths

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2744975	SS101 SOIL	02/09/26	GJ 250ml, GJ 60ml, PT 1L		
2744976	SS102 SOIL	02/09/26	GJ 250ml, GJ 60ml, PT 1L		
2744977	SS103 SOIL	02/09/26	GJ 250ml, GJ 60ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#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 eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C35-C40	EH_CU_1D_AL
Aliphatic C10-C44	EH_CU_1D_AL
Aliphatic C5-C40	EH_CU+HS_1D_AL
Aliphatic C5-C44	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C35-C40	EH_CU_1D_AR
Aromatic C10-C44	EH_CU_1D_AR
Aromatic C5-C40	EH_CU+HS_1D_AR
Aromatic C5-C44	EH_CU+HS_1D_AR
TPH Ali/Aro C5-C40	EH_CU+HS_1D_Total
TPH Ali/Aro C5-C44	EH_CU+HS_1D_Total
Ali/Aro C10-C44	EH_CU_1D_Total

Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 26.05.23

Certificate of Analysis

Certificate Number	26-20550	*Issued:*	07-Sep-26
Client	LK Consult Limited Unit 29 Eton Business Park Eton Hill Road Radcliffe Manchester M26 2ZS		
Our Reference	26-20550		
Client Reference ~	LKC241317		
Order No ~	PO-C003433		
Contract Title ~	Chorlton Baths		
Description	3 Soil samples.		
Date Received	19-Aug-26		
Date Started	19-Aug-26		
Date Completed	07-Sep-26		
Test Procedures	Identified by prefix DETSn (details on request).		
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.		

Approved By [redacted]

Reyhan Irfan
Operations Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 26-20550
Client Ref ~ LKC241317
Contract Title ~ Chorlton Baths

				Lab No	2737724	2737725	2737726
				Sample ID ~	TS101	TS102	TS103
				Depth ~	0.10	0.10	0.10
				Other ID ~			
				Sample Type ~	SOIL	SOIL	SOIL
				Sampling Date ~	17/08/2026	17/08/2026	17/08/2026
				Sampling Time ~	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Preparation							
Moisture Content	DETSC 1004	0.1	%	6.1	3.3	6.7
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	3.5	4.0	3.3
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.9	1.3	1.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.2	0.1
Chromium	DETSC 2301#	0.15	mg/kg	9.0	10	8.6
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	19	20	16
Lead	DETSC 2301#	0.3	mg/kg	16	19	14
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	9.0	10	9.0
Selenium	DETSC 2301#	0.5	mg/kg	0.7	0.6	< 0.5
Vanadium	DETSC 2301#	0.8	mg/kg	12	13	11
Zinc	DETSC 2301#	1	mg/kg	35	42	35
Inorganics							
pH	DETSC 2008#		pH	9.4	8.1	8.6
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.5	0.5	0.5
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.4	0.4	0.3
Organic matter	DETSC 2002#	0.1	%	4.0	5.8	4.7
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	110	110	150
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	7.8	6.8	6.1
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	3.4	4.5	2.9
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C10-C44: EH_CU_1D_AL	DETSC 3072*	10	mg/kg	11	11	< 10
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	11	11	< 10
Aliphatic C5-C44: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	11	11	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	8.4	15	9.1
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	0.8	7.0	1.1
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	5.0	6.2	1.8
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	37	31	< 1.4
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg	< 1.4	< 1.4	< 1.4

Summary of Chemical Analysis
Soil Samples

Our Ref 26-20550
Client Ref ~ LKC241317
Contract Title ~ Chorlton Baths

	Lab No	2737724	2737725	2737726
	Sample ID ~	TS101	TS102	TS103
	Depth ~	0.10	0.10	0.10
	Other ID ~			
	Sample Type ~	SOIL	SOIL	SOIL
	Sampling Date ~	17/08/2026	17/08/2026	17/08/2026
	Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
Aromatic C10-C44: EH_CU_1D_AR	DETSC 3072*	10	mg/kg	55	62	12
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	51	59	12
Aromatic C5-C44: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	55	62	12
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	62	70	12
TPH Ali/Aro C5-C44: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	66	73	21
Ali/Aro C10-C44: EH_CU_1D_Total	DETSC 3072*	10	mg/kg	66	73	21
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.10	0.04	0.04
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.24	0.14	0.10
Pyrene	DETSC 3303#	0.03	mg/kg	0.21	0.12	0.09
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.11	0.08	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.10	0.08	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.14	0.09	0.07
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06	0.04	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.10	0.06	0.04
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.07	0.05	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.07	0.04	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	1.2	0.74	0.45
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.5	0.5	0.4

Summary of Asbestos Analysis
Soil Samples

Our Ref 26-20550
Client Ref ~ LKC241317
Contract Title ~ Chorlton Baths

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2737724	TS101 0.10	SOIL	NAD	none	Michael Kay
2737725	TS102 0.10	SOIL	NAD	none	Michael Kay
2737726	TS103 0.10	SOIL	NAD	none	Michael Kay

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 26-20550
Client Ref ~ LKC241317
Contract ~ Chorlton Baths

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2737724	TS101 0.10 SOIL	17/08/26	GJ 250ml, GJ 60ml, PT 1L		
2737725	TS102 0.10 SOIL	17/08/26	GJ 250ml, GJ 60ml, PT 1L		
2737726	TS103 0.10 SOIL	17/08/26	GJ 250ml, GJ 60ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
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#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 eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
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Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
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Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C35-C40	EH_CU_1D_AL
Aliphatic C10-C44	EH_CU_1D_AL
Aliphatic C5-C40	EH_CU+HS_1D_AL
Aliphatic C5-C44	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C35-C40	EH_CU_1D_AR
Aromatic C10-C44	EH_CU_1D_AR
Aromatic C5-C40	EH_CU+HS_1D_AR
Aromatic C5-C44	EH_CU+HS_1D_AR
TPH Ali/Aro C5-C40	EH_CU+HS_1D_Total
TPH Ali/Aro C5-C44	EH_CU+HS_1D_Total
Ali/Aro C10-C44	EH_CU_1D_Total

Key:
~ Sample details are provided by the client and can affect the validity of the results
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# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 26.05.23

Appendix B – Generic Assessment Criteria Values

Generic Assessment Criteria Values

	Contaminant	SOM	Res +	Res -	Allot.	Comm.	^{POS}resi	^{POS}park	Source
Metals	Inorganic Arsenic	N/A	37	40	49	640	79	168	DEFRA C4SL
	Beryllium	N/A	1.7	1.7	35	12	2.2	63	LQM S4UL
	Boron	N/A	290	11,000	45	240,000	21,000	46,000	LQM S4UL
	Cadmium	N/A	26	149	4.9	410	220	880	DEFRA C4SL
	Chromium (III)	N/A	910	910	18,000	8,600	1,500	33,000	LQM S4UL
	Chromium (VI)	N/A	21.0	21.0	170.0	49	23.0	250	DEFRA C4SL
	Copper	N/A	2,400	7,100	520	68,000	12,000	44,000	LQM S4UL
	Lead	N/A	200	310	80	2,330	630	1,300	DEFRA C4SL
	Elemental Mercury	N/A	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}	LQM S4UL
	Inorganic Mercury	N/A	40	56	19	1,100	120	240	LQM S4UL
	Methylmercury	N/A	11	15	6.0	320	40	68	LQM S4UL
	Nickel	N/A	130	180	53	980	230	800	LQM S4UL
	Selenium	N/A	250	430	88	12,000	1,100	1,800	LQM S4UL
	Vanadium	N/A	410	1,200	91	9,000	2,000	5,000	LQM S4UL
	Zinc	N/A	3,700	40,000	620	730,000	81,000	170,000	LQM S4UL
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000	LQM S4UL
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000	LQM S4UL
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000	LQM S4UL
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000	LQM S4UL
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000	LQM S4UL
		2.5%	5,400	35,000	950	540,000	74,000	150,000	LQM S4UL
		6%	11,000	37,000	2,200	540,000	74,000	150,000	LQM S4UL
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49	LQM S4UL
		2.5%	11	14	6.5	170	29	56	LQM S4UL
		6%	13	15	13	180	29	62	LQM S4UL
	Benzo(a)pyrene (only)	1%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		2.5%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		6%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
	Benzo(a)pyrene (surrogate marker Coal Tar)	1%	0.8	1.2	0.32	15	2.2	4	LQM S4UL
		2.5%	1.0	1.2	0.67	15	2.2	5	LQM S4UL
		6%	1.1	1.2	1.20	15	2.2	5	LQM S4UL
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13	LQM S4UL
		2.5%	3.3	4.0	2.1	44	7.2	15	LQM S4UL
		6%	3.7	4.0	3.9	45	7.2	16	LQM S4UL
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400	LQM S4UL
		2.5%	340	360	470	4,000	640	1,500	LQM S4UL
		6%	350	360	640	4,000	640	1,600	LQM S4UL
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370	LQM S4UL
		2.5%	93	110	75	1,200	190	410	LQM S4UL
		6%	100	110	130	1,200	190	440	LQM S4UL
	Chrysene	1%	15	30	4.1	350	57	93	LQM S4UL
		2.5%	22	31	9.4	350	57	110	LQM S4UL
		6%	27	32	19	350	57	120	LQM S4UL
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1	LQM S4UL
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3	LQM S4UL
		6%	0.3	0.32	0.43	3.6	0.58	1.4	LQM S4UL
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300	LQM S4UL
		2.5%	560	1,600	130	23,000	3,100	6,300	LQM S4UL
		6%	890	1,600	290	23,000	3,100	6,400	LQM S4UL
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000	LQM S4UL
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000	LQM S4UL
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000	LQM S4UL
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150	LQM S4UL
		2.5%	36	46	21	510	82	170	LQM S4UL
		6%	41	46	39	510	82	180	LQM S4UL
	Naphthalene	1%	15	15	65	1600 f	11000 f	800 f	C4SL
		2.5%	36	36	130	3700 f	15000 f	1200 f	C4SL
		6%	85	85	200	8400 f	17000 f	1900 f	C4SL
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200	LQM S4UL
		2.5%	220	1,500	38	22,000	3,100	6,200	LQM S4UL
		6%	440	1,500	90	22,000	3,100	6,300	LQM S4UL
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000	LQM S4UL
		2.5%	1,200	3,800	270	54,000	7,400	15,000	LQM S4UL
		6%	2,000	3,800	620	54,000	7,400	15,000	LQM S4UL
	Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4	LQM S4UL
		2.5%	0.98	1.2	0.67	15	2.2	4.7	LQM S4UL
		6%	1.1	1.2	1.2	15	2.2	4.8	LQM S4UL

Generic Assessment Criteria Values

	Contaminant	SOM	Res +	Res -	Allot.	Comm.	^{POS}resi	^{POS}park	Source
BTEX Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90	LQM S4UL
		2.5%	0.17	0.70	0.034	47	72	100	LQM S4UL
		6%	0.37	1.4	0.075	90	73	110	LQM S4UL
		6%	0.87	3.3	0.180	98	140	230	C4SL
	Toluene	1%	130	880 (869) [vap]	22	56,000 (869) [vap]	56,000	87,000 (869) [vap]	LQM S4UL
		2.5%	290	1,900	51	110,000 (1,920) [vap]	56,000	95,000 (1,920) [vap]	LQM S4UL
		6%	660	3,900	120	180,000 (4,360) [vap]	56,000	100,000 (4,360)	LQM S4UL
	Ethylbenzene	1%	47	83	16	5,700 (518) [vap]	24,000	17,000 (518) [vap]	LQM S4UL
		2.5%	110	190	39	13,000 (1,220) [vap]	24,000	22,000 (1,220) [vap]	LQM S4UL
		6%	260	440	91	27,000 (2,840) [vap]	25,000	27,000 (2,840) [vap]	LQM S4UL
	o-xylene	1%	60	88	28	6,600 (478) [sol]	41,000	17,000 (478) [sol]	LQM S4UL
		2.5%	140	210	67	15,000 (1,120) [sol]	42,000	24,000 (1,120) [sol]	LQM S4UL
		6%	330	480	160	33,000 (2,620) [sol]	43,000	33,000 (2,620) [sol]	LQM S4UL
	m-xylene	1%	59	82	31	6,200 (625) [vap]	41,000	17,000 (625) [vap]	LQM S4UL
		2.5%	140	190	74	14,000 (1,470) [vap]	42,000	24,000 (1,470) [vap]	LQM S4UL
		6%	320	450	170	31,000 (3,460) [vap]	43,000	32,000 (3,460) [vap]	LQM S4UL
	p-xylene	1%	56	79	29	5,900 (576) [sol]	41,000	17,000 (576) [sol]	LQM S4UL
		2.5%	130	180	69	14,000 (1,350) [sol]	42,000	23,000 (1,350) [sol]	LQM S4UL
		6%	310	430	160	30,000 (3,170) [sol]	43,000	31,000 (3,170) [sol]	LQM S4UL
Petroleum Hydrocarbons	**Aliphatic**								
	EC 5-6	1%	42	42	730	3,200 (304) [sol]	570,000(304)[sol]	95,000 (304) [sol]	LQM S4UL
	EC>6-8	1%	100	100	2,300	7,800 (144) [sol]	600,000	150,000 (144) [sol]	LQM S4UL
	EC>8-10	1%	27	27	320	2,000 (78) [sol]	13,000	14,000 (78) [vap]	LQM S4UL
	EC>10-12	1%	130 (48) [vap]	130 (48) [vap]	2,200	9,700 (48) [sol]	13,000	21,000 (48) [vap]	LQM S4UL
	EC>12-16	1%	1,100 (24) [sol]	1,100 (24) [sol]	11,000	59,000 (24) [sol]	13,000	25,000 (24) [sol]	LQM S4UL
	EC>16-35	1%	65,000 (8.48)	65,000 (8.48) [f,sol]	260,000 [f]	160,000 [f]	250,000 [f]	450,000 [f]	LQM S4UL
	EC>35-44	1%	65,000 (8.48)	65,000 (8.48) [f,sol]	260,000 [f]	160,000 [f]	250,000 [f]	450,000 [f]	LQM S4UL
	Aliphatic								
	EC 5-6	2.5%	78	78	1,700	5,900 (558) [sol]	590,000	130,000 (558) [sol]	LQM S4UL
	EC>6-8	2.5%	230	230	5,600	17,000 (322) [sol]	610,000	220,000 (322) [sol]	LQM S4UL
	EC>8-10	2.5%	65	65	770	4,800 (190) [vap]	13,000	18,000 (190) [vap]	LQM S4UL
	EC>10-12	2.5%	330 (118) [vap]	330 (118) [vap]	4,400	23,000 (118) [vap]	13,000	23,000 (118) [vap]	LQM S4UL
	EC>12-16	2.5%	2,400 (59) [sol]	2,400 (59) [sol]	13,000	82,000 (59) [sol]	13,000	25,000 (59) [sol]	LQM S4UL
	EC>16-35	2.5%	92,000 (21)	92,000 (21) [f,sol]	270,000 [f]	1,700,000 [f]	250,000 [f]	480,000 [f]	LQM S4UL
	EC>35-44	2.5%	92,000 (21)	92,000 (21) [f,sol]	270,000 [f]	1,700,000 [f]	250,000 [f]	480,000 [f]	LQM S4UL
	Aliphatic								
	EC 5-6	6%	160	160	3,900	12,000 (1,150) [sol]	600,000	180,000 (1,150)	LQM S4UL
	EC>6-8	6%	530	530	13,000	40,000 (736) [sol]	620,000	320,000 (736) [sol]	LQM S4UL
	EC>8-10	6%	150	150	1,700	11,000 (451) [vap]	13,000	21,000 (451) [vap]	LQM S4UL
	EC>10-12	6%	760 (283) [vap]	760 (283) [vap]	7,300	47,000 (283) [vap]	13,000	24,000 (283) [vap]	LQM S4UL
	EC>12-16	6%	4,300 (142) [sol]	4,400 (142) [sol]	13,000	90,000 (142) [sol]	13,000	26,000 (142) [sol]	LQM S4UL
	EC>16-35	6%	110,000 [f]	110,000 [f]	270,000 [f]	1,800,000 [f]	250,000 [f]	490,000 [f]	LQM S4UL
	EC>35-44	6%	110,000 [f]	110,000 [f]	270,000 [f]	1,800,000 [f]	250,000 [f]	490,000 [f]	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	1%	70	370	13	26,000 (1,220) [sol]	56,000	76,000 (1,220) [sol]	LQM S4UL
	EC>7-8(toluene)	1%	130	860	22	56,000 (869) [vap]	56,000	87,000 (869) [vap]	LQM S4UL
	EC>8-10	1%	34	47	8.6	3,500 (613) [vap]	5,000	7,200 (613) [vap]	LQM S4UL
	EC>10-12	1%	74	250	13	16,000 (364) [sol]	5,000	9,200 (364) [sol]	LQM S4UL
	EC>12-16	1%	140	1,800	23	36,000 (169) [sol]	5,100	10,000	LQM S4UL
	EC>16-21	1%	260 [f]	1,900 [f]	46 [f]	28,000 [f]	3,800 [f]	7,600 [f]	LQM S4UL
	EC>21-35	1%	1,100 [f]	1,900 [f]	370 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
	EC>35-44	1%	1,100 [f]	1,900 [f]	370 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	2.5%	140	690	27	46,000 (2,260) [sol]	56,000	84,000 (2,260) [sol]	LQM S4UL
	EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) [sol]	56,000	95,000 (1,920) [sol]	LQM S4UL
	EC>8-10	2.5%	83	110	21	8,100 (1,500) [vap]	5,000	8,500 (1,500) [vap]	LQM S4UL
	EC>10-12	2.5%	180	590	31	28,000 (899) [sol]	5,000	9,700 (899) [sol]	LQM S4UL
	EC>12-16	2.5%	330	2,300 (419) [sol]	57	37,000	5,100	10,000	LQM S4UL
	EC>16-21	2.5%	540 [f]	1,900 [f]	110 [f]	28,000 [f]	3,800 [f]	7,700 [f]	LQM S4UL
	EC>21-35	2.5%	1,500 [f]	1,900 [f]	820 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
	EC>35-44	2.5%	1,500 [f]	1,900 [f]	820 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	6%	300	1,400	57	86,000 (4,710) [sol]	56,000	92,000 (4,710) [sol]	LQM S4UL
	EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360)[vap]	56,000	100,000 (4,360)	LQM S4UL
	EC>8-10	6%	190	270	51	17,000 (3,580) [vap]	5,000	9,300 (3,580) [vap]	LQM S4UL
	EC>10-12	6%	380	1,200	4	34,000 (2,150) [sol]	5,000	10,000	LQM S4UL
	EC>12-16	6%	660	2,500	130	38,000	5,100	10,000	LQM S4UL
	EC>16-21	6%	930 [f]	1,900 [f]	260 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
	EC>21-35	6%	1,700 [f]	1,900 [f]	1,600 [f]	28,000 [f]	3,800 [f]	7,900 [f]	LQM S4UL
	EC>35-44	6%	1,700 [f]	1,900 [f]	1,600 [f]	28,000 [f]	3,800 [f]	7,900 [f]	LQM S4UL
	Aliphatic +Aromatic >EC44	1%	1,600 [f]	1,900 [f]	1,200 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
		2.5%	1,800 [f]	1,900 [f]	2,100 [f]	28,000 [f]	3,800 [f]	7,800 [f]	LQM S4UL
		6%	1,900 [f]	1,900 [f]	3,000 [f]	28,000 [f]	3,800 [f]	7,900 [f]	LQM S4UL

Generic Assessment Criteria Values

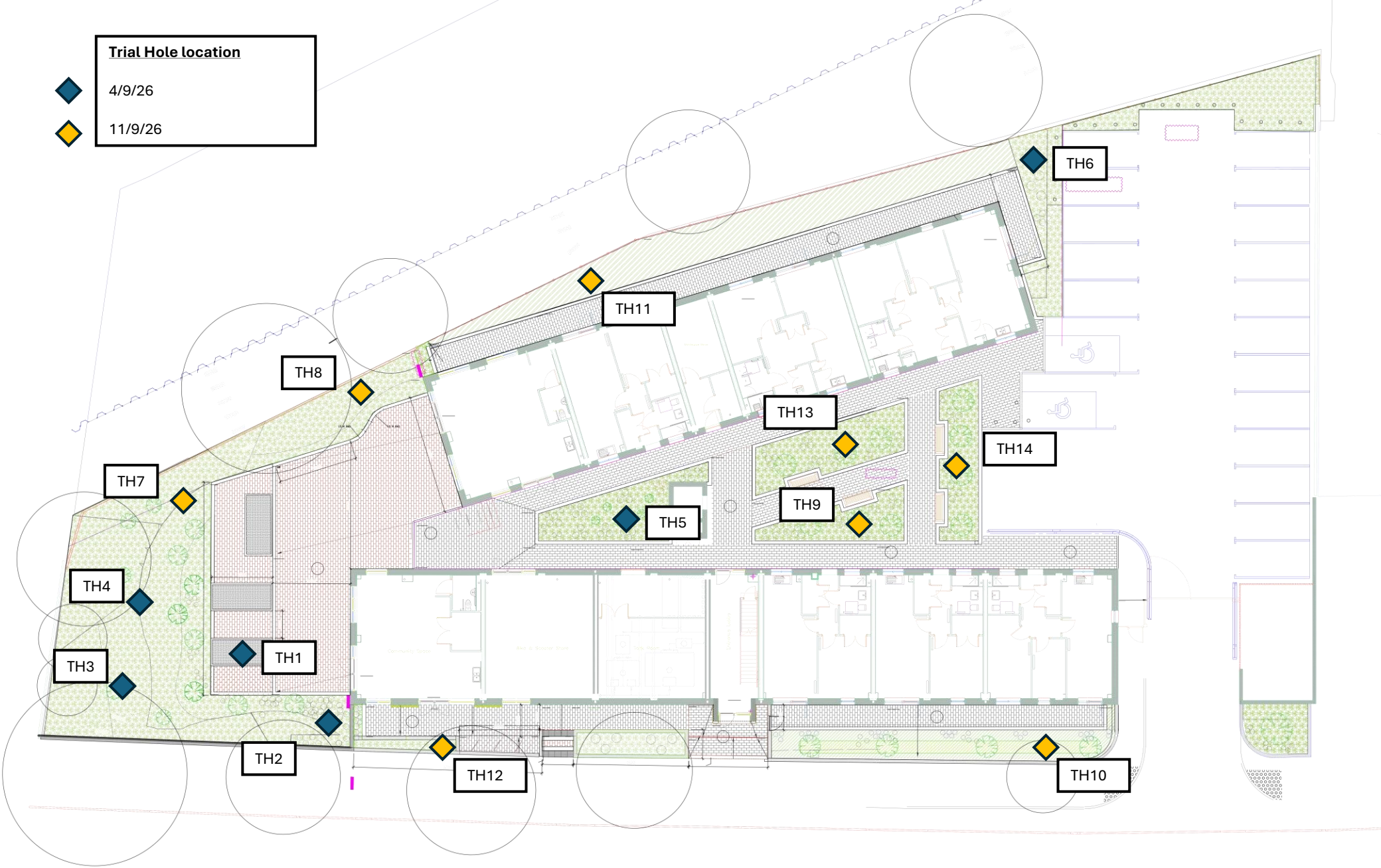
	Contaminant	SOM	Res +	Res -	Allot.	Comm.	^{POS}resi	^{POS}park	Source
Chloalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	0.11	0.16	0.05	12.0	300	300	DEFRA C4SL
		2.5%	0.18	0.24	0.10	17.0	310	330	DEFRA C4SL
		6%	0.31	0.41	0.19	29.0	310	330	DEFRA C4SL
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}	LQM S4UL
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}	LQM S4UL
		6%	39	40	240	3,000	140,000	100,000 (6,392)	LQM S4UL
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800	LQM S4UL
		2.5%	3.4	8.0	0.89	550	1,400	2,100	LQM S4UL
		6%	7.5	17	2.0	1,100	1,400	2,300	LQM S4UL
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500	LQM S4UL
		2.5%	2.8	3.5	1.9	250	1,400	1,800	LQM S4UL
		6%	6.4	8.2	4.4	560	1,400	2,100	LQM S4UL
	Tetrachloroethene (PCE)	1%	0.31	0.32	2.00	24	3,200	1400	DEFRA C4SL
		2.5%	0.70	0.71	4.8	55	3,300	1900	DEFRA C4SL
		6%	1.60	1.60	11.0	130	3,400	2,500	DEFRA C4SL
	Tetrachloromethane (carbon tetrachloride)	1%	0.03	0.03	0.45	2.9	890	190	LQM S4UL
		2.5%	0.06	0.06	1.0	6.3	920	270	LQM S4UL
		6%	0.13	0.13	2.4	14	950	400	LQM S4UL
	Trichloroethene (TCE)	1%	0.009	0.010	0.032	0.7	76.0	41.0	DEFRA C4SL
		2.5%	0.020	0.020	0.072	1.5	78.0	51.0	DEFRA C4SL
		6%	0.043	0.045	0.160	3.4	79.0	69.0	DEFRA C4SL
	cis 1,2-dichloroethene	1%	0.46	0.50	0.890	38	3,800	2,000	DEFRA C4SL
		2.5%	0.78	0.84	1.70	64	3,800	2,400	DEFRA C4SL
		6%	1.50	1.60	3.60	120	3,900	3,100	DEFRA C4SL
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600	LQM S4UL
		2.5%	1.7	2.1	0.83	170	2,500	2,800	LQM S4UL
		6%	3.4	4.2	1.7	350	2,500	3,100	LQM S4UL
	Trans-1,2 Dichloroethene	1%	0.9	0.9	3.7	69	13,000	5,600	DEFRA C4SL
		2.5%	1.6	1.7	7.5	120	13,000	7,000	DEFRA C4SL
		6%	3.3	3.4	16.0	260	13,000	9,100	DEFRA C4SL
	Chloroethene (vinyl chloride)	1%	0.006	0.015	0.0017	1.1E+00	7.8	18.0	DEFRA C4SL
		2.5%	0.010	0.019	0.0031	1.4E+00	7.8	19.0	DEFRA C4SL
		6%	0.017	0.029	0.0058	2.20	7.8	19.0	DEFRA C4SL
	2,4,6-Trinitritoluene (TNT)	1%	1.6	65	0.24	1,000	130	260	LQM S4UL
		2.5%	3.7	66	0.58	1,000	130	270	LQM S4UL
		6%	8.1	66	1.4	1,000	130	270	LQM S4UL
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}	LQM S4UL
		2.5%	250	13,000	38	210,000	26,000	51,000	LQM S4UL
		6%	540	13,000	85	210,000	27,000	53,000	LQM S4UL
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}	LQM S4UL
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}	LQM S4UL
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}	LQM S4UL
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30	LQM S4UL
		2.5%	6.6	7.4	6.1	170	18	31	LQM S4UL
		6%	7.1	7.5	9.8	170	18	31	LQM S4UL
	Dieldrin	1%	0.97	7.0	0.17	170	18	30	LQM S4UL
		2.5%	2.0	7.3	0.41	170	18	30	LQM S4UL
		6%	3.5	7.4	0.96	170	18	31	LQM S4UL
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300	LQM S4UL
		2.5%	7.8	620	1.2	9,400	1,200	2,400	LQM S4UL
		6%	17.4	620	2.7	9,400	1,200	2,400	LQM S4UL
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26	LQM S4UL
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26	LQM S4UL
		6%	0.14	6.6	2.2E-02	140	16	27	LQM S4UL
	Endosulfanns (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300	LQM S4UL
		2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400	LQM S4UL
		6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500	LQM S4UL
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15	LQM S4UL
		2.5%	0.2	3.8	3.2E-02	65	8.1	15	LQM S4UL
		6%	0.46	3.8	7.7E-02	65	8.1	16	LQM S4UL
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}	LQM S4UL
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}	LQM S4UL
		6%	2.4	2.4	32	290	14,000	2,900	LQM S4UL
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}	LQM S4UL
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}	LQM S4UL
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}	LQM S4UL
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}	LQM S4UL
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}	LQM S4UL
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}	LQM S4UL
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}	LQM S4UL
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120	LQM S4UL
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130	LQM S4UL
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190	LQM S4UL
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190	LQM S4UL
		6%	22	38	7.0	830	100	190	LQM S4UL
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30	LQM S4UL
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30	LQM S4UL
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30	LQM S4UL

Generic Assessment Criteria Values

	Contaminant	SOM	Res +	Res -	Allot.	Comm.	^{POS}resi	^{POS}park	Source
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 [g]	94	0.13 [g]	3,500	620	1,100	LQM S4UL
		2.5%	2.0	150	0.30	4,000	620	1,100	LQM S4UL
		6%	4.5	210	0.70	4,300	620	1,100	LQM S4UL
	Pentachlorophenol	1%	0.22	27 (16.4) [vap]	3.0E-02	400	60	110	LQM S4UL
		2.5%	0.52	29	8.0E-02	400	60	120	LQM S4UL
		6%	1.2	31	0.19	400	60	120	LQM S4UL
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300	LQM S4UL
		2.5%	0.29	0.29	10	22	11,000	1,900	LQM S4UL
		6%	0.62	0.62	23	47	11,000	2,700	LQM S4UL
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48	LQM S4UL
		2.5%	0.7	0.78	0.61	66	25	50	LQM S4UL
		6%	1.6	1.8	1.4	120	25	51	LQM S4UL
	Phenol	1%	120	440 (460)	23	440 [dir] (26,000)	440 [dir] (10,000)	440 [dir] (7,600)	LQM S4UL
		2.5%	200	690	42	690 [dir] (30,000)	690 [dir] (10,000)	690 [dir] (8,300)	LQM S4UL
		6%	380	1,200	83	1,300 [dir] (34,000)	1,300 [dir] (10,000)	1,300 [dir] (9,300)	LQM S4UL

sol/vap = solubility/vapour limit (potentially use if free product identified, although highly conservative)
f=naphthalene is based on comparison of inhalation exposure with TDI(inhal) for localised effect
f = oral, dermal and inhalation exposures compared to oral HCV
dir = S4ULs based on threshold protective of direct skin contact with phenol)brackets long term exposure for illustration purposes)
g = derived based on 2,3,4-tetrachlorophenol

Appendix C – Capping Layer validation Photographs


Trial Hole location
4/9/26
11/9/26
TH6
TH11
TH8
TH13
TH14
TH7
TH9
TH5
TH4
TH3
TH1
TH2
TH12
TH10





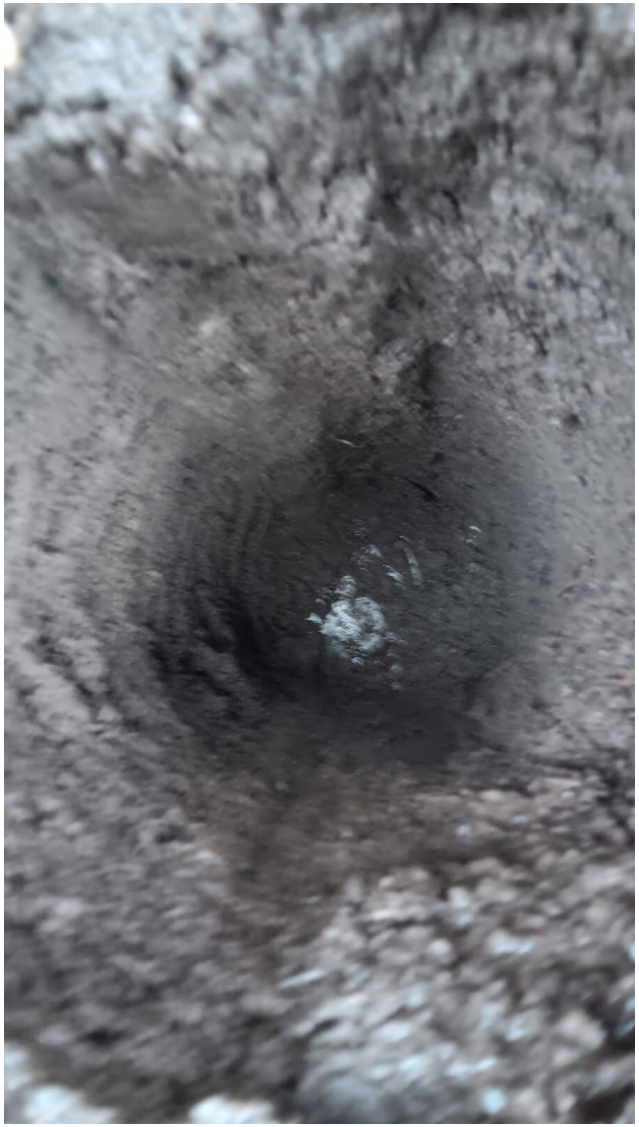




Trial Hole 1







Trial Hole 2









Trial Hole 3









Trial Hole 4









Trial Hole 5









Trial Hole 6









Trial Hole 7









Trial Hole 8









Trial Hole 9









Trial Hole 10





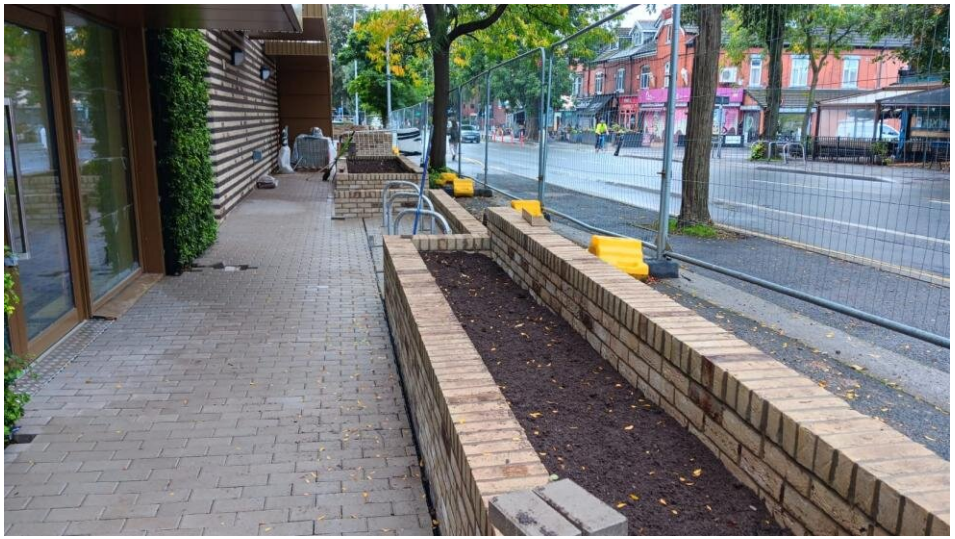


Trial Hole 11









Trial Hole 12









Trial Hole 13









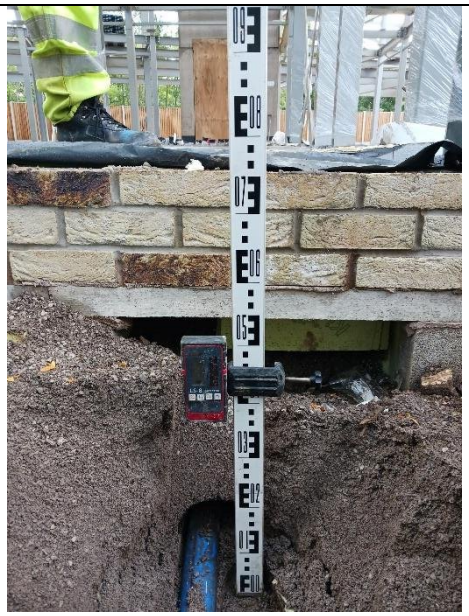
Trial Hole 14

Appendix D – Potable Water Installation Records









Photographs 1-4: Selected photographs of installed potable water supply pipes.

Appendix E - References

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