

**DC1243 Network Building**

**Contamination Monitoring Report**

**LIVE DOCUMENT – REV-01 (23/05/2023)**

This document sets out testing we've taken to date, the location the samples were taken from and the results.

We are currently carrying out the bulk excavation on the project and will be regularly testing the soil as we go. This document will be a live document until such time as the bulk excavation is completed in June.

Based on the results shown from the tables to follow – *no unexpected contaminates were encountered and therefore no remediation works were required in these areas indicated.*

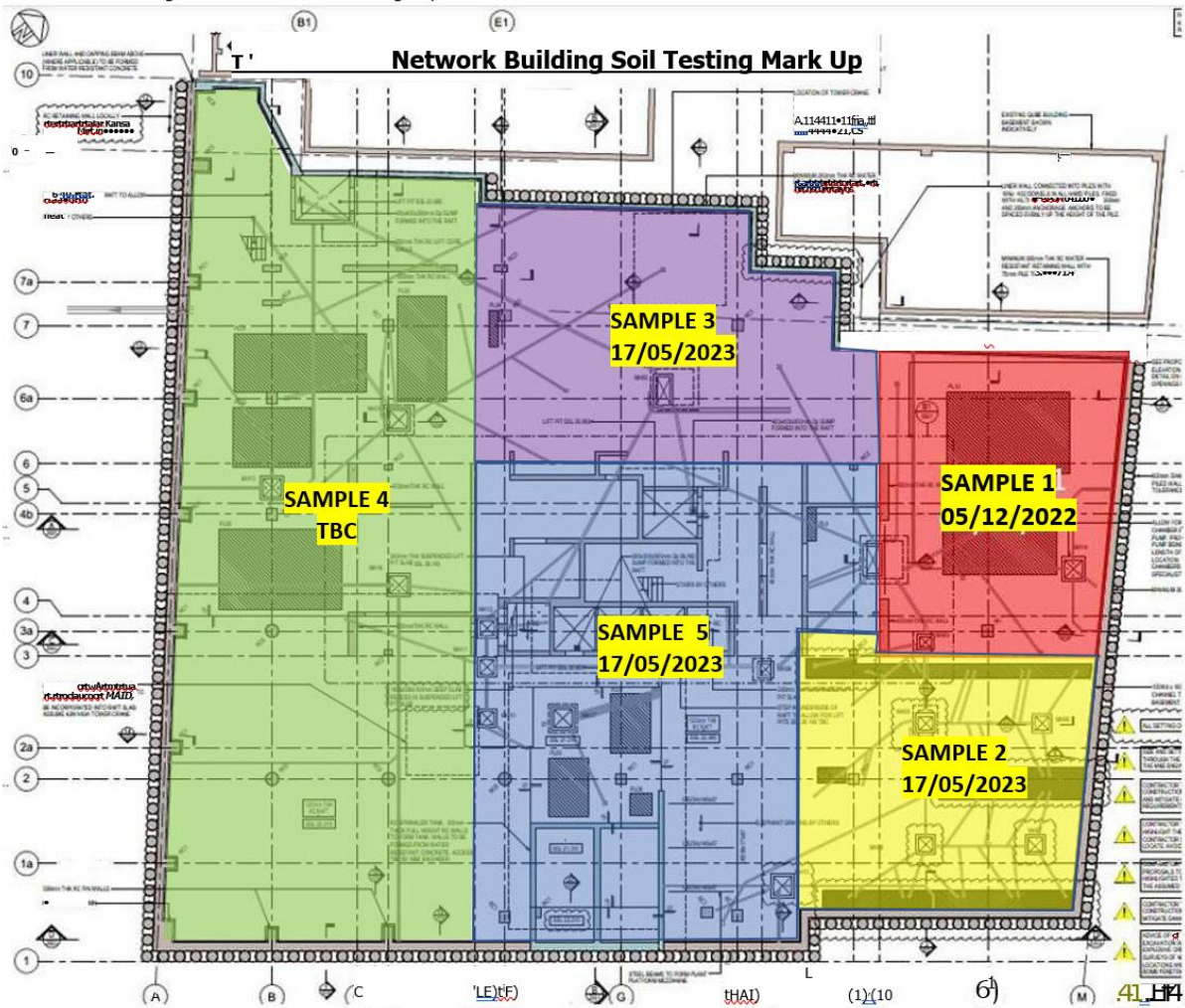
Further to the planning condition; *5.9 Contamination and Remediation*, Keltbray can confirm they followed the Discovery Strategy (See KBE letter to Blackburn Ref DC1243-TP-001) in regard to excavation works at The Network Building Project (The Site).

### Soil Testing Mark Up

The Network Building - Contamination Monitoring Report Rev 01

The below markup outlines the dates of the soil sampling carried out at Network Building based on the sampling areas required.

Sample 4 is the last remaining zone that is to be tested once the works progress to a suitable stage for soil sampling to be undertaken. Once complete the samples will be sent off for testing and the results will be populated in the designated table following and issued for review and approval.



## Results

See below summary of results and references below:

All sampling results are attached for review.

### Sample 1

We took the first sample of soil when we removed the original ground floor slab during some trial hole works before the piling operation. The samples were taken to from existing ground to above clay level.

SAMPLE 1	Date Sample Taken	Date of Sample Results	Positive or Negative	Comments
DC12430-2A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-3A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-6A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-7A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-8A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-9A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-10A	01.12.2022	05.12.2023	Negative	No Remedial Works Required
DC12430-11A	01.12.2022	05.12.2023	Negative	No Remedial Works Required

### Sample 2

Sample 2 soil sampling was completed during the bulk excavation works following completion of the stage 2 prop. The samples were taken from existing ground to above clay level.

SAMPLE 2	Date Sample Taken	Date of Sample Results	Positive or Negative	Comments
DC1243 - 14	17.05.2023	23.05.2023	Negative	No Remedial Works Required
DC1243 - 14A	17.05.2023	23.05.2023	Negative	No Remedial Works Required

### Sample 3

Sample 3 soil sampling was completed during the bulk excavation works following completion of the stage 2 prop. The samples were taken from existing ground to above clay level.

SAMPLE 3	Date Sample Taken	Date of Sample Results	Positive or Negative	Comments
DC1243 - 15	17.05.2023	23.05.2023	Negative	No Remedial Works Required
DC1243 - 15A	17.05.2023	23.05.2023	Negative	No Remedial Works Required

### **Sample 4 - Results to Follow**

Sample 4 soil sampling will be completed during the bulk excavation works once the final stage 2 prop has been installed and the bulk excavation in this area can progress.

Following receipt of the sample 4 results the below table will be populated to outline the findings and issued for review and approval.

<b>SAMPLE 4</b>	<b>Date Sample Taken</b>	<b>Date of Sample Results</b>	<b>Positive or Negative</b>	<b>Comments</b>

### **Sample 5**

Sample 5 soil sampling was completed during the bulk excavation works following completion of the stage 2 prop. The samples were taken from existing ground to above clay level.

<b>SAMPLE 4</b>	<b>Date Sample Taken</b>	<b>Date of Sample Results</b>	<b>Positive or Negative</b>	<b>Comments</b>
<b>DC1243 - 16</b>	17.05.2023	23.05.2023	Negative	No Remedial Works Required
<b>DC1243 – 16A</b>	17.05.2023	23.05.2023	Negative	No Remedial Works Required



# Final Report

---

**Report No.:** 23-14649-1

**Initial Date of Issue:** 10-May-2023

**Re-Issue Details:**

**Client:** Keltbray

**Client Address:** St. Andrews Road  
Portsmouth House  
Esher  
Surrey  
KT10 9TA

**Contact(s):** Cliff Burton  
Eduardo Pereira Ramos  
William Moloney

**Project:** KBCOC 20823 The Network Building -  
DC1243 DC1243-14

**Quotation No.:** **Date Received:** 03-May-2023

**Order No.:** M-KENV01/0114 **Date Instructed:** 03-May-2023

**No. of Samples:** 1

**Turnaround (Wkdays):** 5 **Results Due:** 10-May-2023

**Date Approved:** 10-May-2023

**Approved By:**

**Details:** Stuart Henderson, Technical  
Manager

---

## Results - Soil

**Project: KBCOC 20823 The Network Building - DC1243**  
**DC1243-14**

<b>Client: Keltbray</b>	<b>Chemtest Job No.:</b>				23-14649
Quotation No.:	<b>Chemtest Sample ID.:</b>				1633310
Order No.: M-KENV01/0114	Client Sample Ref.:				S14
	Client Sample ID.:				DC1243-14
	Sample Type:				SOIL
	Date Sampled:				26-Apr-2023
Determinand	Accred.	SOP	Units	LOD	
Moisture	N	2030	%	0.020	10
pH	U	2010		4.0	8.9
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	1.6
Sulphate (Total)	U	2430	%	0.010	0.039
Sulphate (Total)	U	2430	mg/kg	100	390
Arsenic	U	2455	mg/kg	0.5	7.2
Cadmium	U	2455	mg/kg	0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	8.4
Copper	U	2455	mg/kg	0.50	5.7
Mercury	U	2455	mg/kg	0.05	0.12
Nickel	U	2455	mg/kg	0.50	11
Lead	U	2455	mg/kg	0.50	20
Selenium	U	2455	mg/kg	0.25	0.31
Zinc	U	2455	mg/kg	0.50	18
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Diesel Present	N	2670		N/A	False
Total TPH >C6-C40	U	2670	mg/kg	10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0

### TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
23-14649	1633310	S		S14	DC1243-14		No	N/A

## Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)



## **Report Information**

### **Key**

---

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

---

**Report No.:** 23-14656-1

**Initial Date of Issue:** 05-May-2023

**Client:** Keltbray


**Client Address:** St. Andrews Road  
Portsmouth House  
Esher  
Surrey  
KT10 9TA

**Contact(s):** Cliff Burton  
Eduardo Pereira Ramos  
William Moloney

**Project:** KBCOC 20823 The Network Building -  
DC1243 DC1243-14A

<b>Quotation No.:</b>		<b>Date Received:</b>	03-May-2023
<b>Order No.:</b>	M-KENV01/0114	<b>Date Instructed:</b>	03-May-2023
<b>No. of Samples:</b>	1		
<b>Turnaround (Wkdays):</b>	5	<b>Results Due:</b>	10-May-2023
<b>Date Approved:</b>	05-May-2023		

**Approved By:**



**Details:** Stuart Henderson, Technical  
Manager

---

## Results - Soil

**Project: KBCOC 20823 The Network Building - DC1243**  
**DC1243-14A**

<b>Client: Keltbray</b>	<b>Chemtest Job No.:</b> 23-14656				
Quotation No.:	<b>Chemtest Sample ID.:</b> 1633347				
Order No.: M-KENV01/0114	Client Sample Ref.: S14				
	Client Sample ID.: DC1243-14A				
	Sample Type: SOIL				
	Date Sampled: 26-Apr-2023				
	Asbestos Lab: NEW-ASB				
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

## Test Methods

<b>SOP</b>	<b>Title</b>	<b>Parameters included</b>	<b>Method summary</b>
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

## **Report Information**

### **Key**

---

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

---

**Report No.:** 23-14652-1

**Initial Date of Issue:** 10-May-2023

**Re-Issue Details:**

**Client** Keltbray

**Client Address:** St. Andrews Road  
Portsmouth House  
Esher  
Surrey  
KT10 9TA

**Contact(s):** Cliff Burton  
Eduardo Pereira Ramos  
William Moloney

**Project** KBCOC 20823 The Network Building -  
DC1243 DC1243-15

**Quotation No.:** **Date Received:** 03-May-2023

**Order No.:** M-KENV01/0114 **Date Instructed:** 03-May-2023

**No. of Samples:** 1

**Turnaround (Wkdays):** 5 **Results Due:** 10-May-2023

**Date Approved:** 10-May-2023

**Approved By:**

**Details:** Stuart Henderson, Technical  
Manager

---

## Results - Soil

**Project: KBCOC 20823 The Network Building - DC1243**

**DC1243-15**

<b>Client: Keltbray</b>	<b>Chemtest Job No.:</b>				23-14652
Quotation No.:	<b>Chemtest Sample ID.:</b>				1633329
Order No.: M-KENV01/0114	Client Sample Ref.:				S15
	Client Sample ID.:				DC1243-15
	Sample Type:				SOIL
	Date Sampled:				26-Apr-2023
Determinand	Accred.	SOP	Units	LOD	
Moisture	N	2030	%	0.020	24
pH	U	2010		4.0	8.4
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50
Sulphate (Total)	U	2430	%	0.010	1.0
Sulphate (Total)	U	2430	mg/kg	100	10000
Arsenic	U	2455	mg/kg	0.5	14
Cadmium	U	2455	mg/kg	0.10	0.17
Chromium	U	2455	mg/kg	0.5	11
Copper	U	2455	mg/kg	0.50	70
Mercury	U	2455	mg/kg	0.05	3.2
Nickel	U	2455	mg/kg	0.50	16
Lead	U	2455	mg/kg	0.50	510
Selenium	U	2455	mg/kg	0.25	0.72
Zinc	U	2455	mg/kg	0.50	73
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Diesel Present	N	2670		N/A	False
Total TPH >C6-C40	U	2670	mg/kg	10	140
Naphthalene	U	2700	mg/kg	0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0

### TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
23-14652	1633329	S		S15	DC1243-15		No	PAH



## Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

## **Report Information**

### **Key**

---

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

---

**Report No.:** 23-14657-1

**Initial Date of Issue:** 05-May-2023

**Client:** Keltbray


**Client Address:** St. Andrews Road  
Portsmouth House  
Esher  
Surrey  
KT10 9TA

**Contact(s):** Cliff Burton  
Eduardo Pereira Ramos  
William Moloney

**Project:** KBCOC 20823 The Network Building -  
DC1243 DC1243-15A

<b>Quotation No.:</b>		<b>Date Received:</b>	03-May-2023
<b>Order No.:</b>	M-KENV01/0114	<b>Date Instructed:</b>	03-May-2023
<b>No. of Samples:</b>	1		
<b>Turnaround (Wkdays):</b>	5	<b>Results Due:</b>	10-May-2023
<b>Date Approved:</b>	05-May-2023		

**Approved By:**



**Details:** Stuart Henderson, Technical  
Manager

---

## Results - Soil

**Project: KBCOC 20823 The Network Building - DC1243**  
**DC1243-15A**

<b>Client: Keltbray</b>	<b>Chemtest Job No.:</b> 23-14657				
Quotation No.:	<b>Chemtest Sample ID.:</b> 1633348				
Order No.: M-KENV01/0114	Client Sample Ref.: S15				
	Client Sample ID.: DC1243-15A				
	Sample Type: SOIL				
	Date Sampled: 26-Apr-2023				
	Asbestos Lab: NEW-ASB				
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

## Test Methods

<b>SOP</b>	<b>Title</b>	<b>Parameters included</b>	<b>Method summary</b>
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

## **Report Information**

### **Key**

---

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

---

**Report No.:** 23-14654-1

**Initial Date of Issue:** 10-May-2023

**Re-Issue Details:**

**Client:** Keltbray

**Client Address:** St. Andrews Road  
Portsmouth House  
Esher  
Surrey  
KT10 9TA

**Contact(s):** Cliff Burton  
Eduardo Pereira Ramos  
William Moloney

**Project:** KBCOC 20823 The Network Building -  
DC1243 DC1243-16

**Quotation No.:** **Date Received:** 03-May-2023

**Order No.:** M-KENV01/0114 **Date Instructed:** 03-May-2023

**No. of Samples:** 1

**Turnaround (Wkdays):** 5 **Results Due:** 10-May-2023

**Date Approved:** 10-May-2023

**Approved By:**

**Details:** Stuart Henderson, Technical  
Manager

---

## Results - Soil

**Project: KBCOC 20823 The Network Building - DC1243**

**DC1243-16**

<b>Client: Keltbray</b>	<b>Chemtest Job No.:</b>				23-14654
Quotation No.:	<b>Chemtest Sample ID.:</b>				1633335
Order No.: M-KENV01/0114	Client Sample Ref.:				S16
	Client Sample ID.:				DC1243-16
	Sample Type:				SOIL
	Date Sampled:				26-Apr-2023
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>	
Moisture	N	2030	%	0.020	20
pH	U	2010		4.0	9.4
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50
Sulphate (Total)	U	2430	%	0.010	0.75
Sulphate (Total)	U	2430	mg/kg	100	7500
Arsenic	U	2455	mg/kg	0.5	15
Cadmium	U	2455	mg/kg	0.10	0.15
Chromium	U	2455	mg/kg	0.5	17
Copper	U	2455	mg/kg	0.50	67
Mercury	U	2455	mg/kg	0.05	2.2
Nickel	U	2455	mg/kg	0.50	18
Lead	U	2455	mg/kg	0.50	470
Selenium	U	2455	mg/kg	0.25	0.81
Zinc	U	2455	mg/kg	0.50	89
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Diesel Present	N	2670		N/A	False
Total TPH >C6-C40	U	2670	mg/kg	10	150
Naphthalene	U	2700	mg/kg	0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	0.45
Pyrene	U	2700	mg/kg	0.10	0.37
Benzo[a]anthracene	U	2700	mg/kg	0.10	1.1
Chrysene	U	2700	mg/kg	0.10	0.25
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	2.1



### TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
23-14654	1633335	S		S16	DC1243-16		No	PAH

## Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

## **Report Information**

### **Key**

---

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

**Report No.:** 23-14659-1

**Initial Date of Issue:** 05-May-2023

**Client:** Keltbray


**Client Address:** St. Andrews Road  
Portsmouth House  
Esher  
Surrey  
KT10 9TA

**Contact(s):** Cliff Burton  
Eduardo Pereira Ramos  
William Moloney

**Project:** KBCOC 20823 The Network Building -  
DC1243 DC1243-16A

<b>Quotation No.:</b>		<b>Date Received:</b>	03-May-2023
<b>Order No.:</b>	M-KENV01/0114	<b>Date Instructed:</b>	03-May-2023
<b>No. of Samples:</b>	1		
<b>Turnaround (Wkdays):</b>	5	<b>Results Due:</b>	10-May-2023
<b>Date Approved:</b>	05-May-2023		

**Approved By:**



**Details:** Stuart Henderson, Technical  
Manager

## Results - Soil

**Project: KBCOC 20823 The Network Building - DC1243**  
**DC1243-16A**

<b>Client: Keltbray</b>	<b>Chemtest Job No.:</b> 23-14659				
Quotation No.:	<b>Chemtest Sample ID.:</b> 1633350				
Order No.: M-KENV01/0114	Client Sample Ref.: S16				
	Client Sample ID.: DC1243-16A				
	Sample Type: SOIL				
	Date Sampled: 26-Apr-2023				
	Asbestos Lab: NEW-ASB				
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

## Test Methods

<b>SOP</b>	<b>Title</b>	<b>Parameters included</b>	<b>Method summary</b>
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

## **Report Information**

### **Key**

---

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)