

Site: St James Park, Former MMU Campus,
Didsbury
Plots: 26-28
Date: 18th June 2018
NHBC Ref: Phase 2 - 713376



1 INTRODUCTION

LK Consult (LKC) has been appointed by PJ Livesey Holdings Ltd to validate the depth of the garden capping layer laid down at the development at St James Park, Former MMU Campus, Didsbury.

This validation report concerns Plots 26 to 28. These plots consist of a rear garden and a small area of landscaping to the front. Plot 26 has a paved driveway to the front of the property.

The requirement for remedial works across the site arose as a result of previous site investigations and risk assessments carried out by LK Consult Limited (ref. LKC 16 1066-02 Post Demolition Site Investigation, Risk Assessment and Updated Remediation Strategy, dated 15th December 2016) which outlined the remediation and validation requirements. These comprised the following recommendations:

- i) Option 1: Environmental capping layer comprising 450mm clean suitable soil in rear gardens and 300mm in front gardens and areas of landscaping over either 100mm MOT stone (included in total soil depth) or geotextile marker.
- ii) Option 2: Further sampling and risk assessment on a block by block basis (nominally a total of 4 soil samples per plot with 1 in the front garden) or selected soil samples in any landscaped areas. If soil results are below generic assessment criteria then no specific clean validated environmental cover depth will be required, but a nominal 150mm covering of topsoil as a growing medium (if required).
- iii) Validation testing of any site won or imported material to be re-used onsite in gardens and soft landscaping to ensure it is 'suitable for use'. All site won or imported material should be tested at a rate of 1 sample per 50m³ for topsoil and 1 sample per 150m³ for subsoil.
- iv) Details of unexpected contamination.
- v) Provision of waste transfer notes for any disposal of contaminated soil offsite.

A validation checklist was provided to the ground workers and is presented in Appendix A.

2 IMPORTED MATERIAL

Topsoil for use in the garden and soft landscaping areas has been imported to site. The material used comprised approximately 200m³ of topsoil supplied by Huperade from a greenfield site at New Manor Farm, Stretford.

Composite topsoil samples were taken from garden areas (ref: TS301-TS303) were subjected to the following analytical suite as a conservative measure:

- Arsenic, cadmium, total chromium, hexavalent chromium, copper, lead, zinc, selenium, nickel, vanadium, mercury, speciated PAH, boron, cyanide (free and total), total phenol, TPH CWG, BTEX, pH, soluble sulphate, asbestos and SOM.

Soil samples were collected in plastic tubs, amber glass jars and amber vials and despatched to Chemtest of Newmarket in cool boxes with ice packs.

Soil results for the topsoil are presented in Appendix B. No elevated levels of contaminants were identified in the soil samples collected when compared to Generic Assessment Criteria presented in the agreed Remediation Strategy.

3 CAPPING LAYER IN GARDEN AREAS

Option 1 was undertaken by PJ Livesey. The recommendation for the garden capping layer in Plots 26 to 28 was that it should comprise a minimum 300mm thickness to the front and 450mm to the rear.

LKC attended site on 10th November 2017 and 12th January 2018 to inspect the capping layer construction and depth in the rear and front garden areas. Photographs are provided in Appendix C and the observations are summarised below.

Location	Topsoil Depth (mm)	Subsoil Depth (mm)	Membrane or 100mm MOT	Total Depth (mm)	Required Depth (mm)	Pass (✓) or Fail (x)
Plot 26 Front	Fully hardstood					
Plot 26 Rear	450	0	Membrane	450	450	✓
Plot 27 Front	500	0	Membrane	500	300	✓
Plot 27 Rear	450	0	Membrane	450	450	✓
Plot 28 Front	450	0	Membrane	450	300	✓
Plot 28 Rear	450	0	Membrane	450	450	✓

LKC were able to verify that, in the places inspected within the front and rear gardens of Plots 26 to 28, the capping layer depths were in accordance with the requirements of the Remediation Strategy.

4 CONCLUSIONS

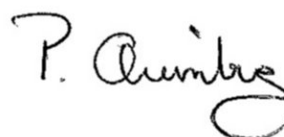
LKC has completed the validation of the garden capping layers within Plots 26 to 28 and conclude that, in the places inspected, chemically suitable material has been laid to an appropriate depth.

Report Prepared By:



Kerrell Walley
Geo-Environmental Scientist

Report Reviewed By:



Dr Paul Quimby
Director

Enc:

Appendix A: Remediation Strategy Validation Checklist
Appendix B: Certificates of Analysis – Imported and Site Won Soil
Appendix C: Plot Photographs

Disclaimer

This report has been prepared by LKC who have exercised such professional skill, care and diligence as may reasonably be expected of a properly qualified and competent consultant experienced in preparing reports of a similar scope. However, to the extent that the report is based on or relies upon information contained in records, reports or other materials provided to LKC which have not been independently produced or verified, LKC gives no warranty, representation or assurance as to the accuracy or completeness of such information.

This report is issued on the condition that LKC will not be held liable for any loss arising from ground conditions between sampling points (i.e. boreholes/trial pits/hand augers/surface samples) which have not been shown by the sampling points or related testing carried out during the investigation, nor for any loss arising from conditions below the maximum depth of the investigation, or for any works done to the garden areas following the date of inspection. Opinions on such conditions, where given, are for general guidance only.

This report is prepared solely for the benefit of PJ Livesey Holdings Ltd. It may not be relied upon by, or submitted to a third party for their reliance for the purposes of valuation, mortgage, insurance and regulatory approval, until all invoices have been settled in full. Those using this information in subsequent assessments or evaluations do so at their own risk.

Appendix A – Remediation Strategy Validation Checklist

Site Works / Validation Check List – LKC 16 1066 – MMU Didsbury Housing Development



Plots	Validation Work	Additional Notes
Imported / Site Won Soil / stone	-Require information from soil provider on source and amount of soil provided (if sourced offsite). -LKC will need to collect and analyse a suitable number of samples per stockpile/source. -Topsoil tested at 1 sample 50m³. -Subsoil tested at 1 sample per 150m³. -Stone tested at 1 sample per 500m³. -If provenance proven that subsoil is natural quarried material then no testing required. -A minimum of 3 samples per source is required. -If site won material then should be stockpiled and tested at the same rate, but will need appropriate exemptions / permits to re-use onsite.	-Soil sampling should be undertaken from source or from a stockpile onsite. Can be sampled when in gardens; however, may have to be removed if unsuitable. -Soil samples will be undertaken on an accelerated 3 working day turnaround.
Option 2 Block Specific SI	-Useful if time constraints and where you do not wish for an environmental capping layer. -Nominal 3 soil sample from rear garden and 1 soil sample from front. -Selected soil sampling in landscaped (POS) areas. -All data in that block / POS will be risk assessed and a Block by Block / POS assessment and recommendations provided in a report. -This additional sampling will apply near TPO's, where the full environmental capping layer may not be able to be achieved. Due to root protection.	-If data fail then an environmental capping layer will still be required and a report will not be needed. - If soil passes and no formal environmental capping layer is required then a formal depth is not necessary. A nominal 150mm topsoil is recommended as a growing medium and to cover undesirable material.
Option 1 Garden Areas	Rear Gardens <i>Unless a Block by Block site investigation is undertaken and soil passes.</i> -450mm total depth soil capping layer (includes minimum 150m topsoil) required for these plots. -This includes a Hi-Viz geotextile at the base of the capping layer OR 100mm MOT type 1 (minimal fines) and 350mm depth soil capping layer (includes minimum 150mm topsoil).	-Site manager to photograph laying of separation geotextile OR 100mm MOT in each garden area. -LKC need to validate the depth of the cover layer by digging small hole in each garden area, measuring the depth and taking validatory photos.
Option 1 Landscaped Areas	All Front gardens and Landscaped Areas <i>Unless a Block by Block / POS site investigation is undertaken and soil passes.</i> -300mm total depth soil capping layer (includes minimum 150m topsoil) required for these landscaped areas. -This includes a Hi-Viz geotextile at the base of the capping layer OR 100mm MOT type 1 (minimal fines) and 200mm depth soil capping layer (includes minimum 150mm topsoil).	-Site manager to photograph laying of separation geotextile OR 100mm MOT in each garden area. -LKC need to validate the depth of the cover layer by digging small hole in each garden area, measuring the depth and taking validatory photos.
Site	Unexpected Contamination -During earthworks if contractor finds visual or olfactory evidence of contamination and/or asbestos then LKC should be informed and if necessary material will need to be sampled so that it can be disposed of at an appropriate licensed tip. -Material should be stockpiled on Visqueen and covered prior to disposal and/or testing. -All disposal tickets will be required for the Completion Report.	-If considerable earthworks or soil movement is occurring it would be advisable that LKC undertake a Watching Brief during earthworks.
Site	Local Authority Site Completion Report -Manchester Council require a Site Completion Report for whole site once all validation complete. -Individual plot reports may be required for NHBC for individual plot sales before site is fully completed.	-Can only be done once development is completed. -Manchester Council may provide a letter of comfort for each plot that has been completed satisfactory (if individual plot reports undertaken).

NOTE:

Minimum 24 hours notice to attend site.

Contacts

LK Consult

Unit 29, Eton Business Park, Eton Hill Road, Radcliffe, M26 2ZS Tel: 0161 763 7200

Paul Quimby – p.quimby@thelkgroup.com

Kerrell Walley – k.walley@thelkgroup.com

SUITABILITY OF ANY IMPORTED MATERIAL AS CLEAN COVER

Recommended validation sampling requirements for environmental capping layer soils presented in the following table.

Material Type	Source	Suite of Analysis	Sampling Rate
Topsoil	Greenfield	Suite A	1 sample per 50m ³ (minimum of 3 samples per source)
	Brownfield / Unknown / Site Won	Suite B	
Subsoil	Brownfield / Unknown / Site Won	Suite B	1 sample per 150m ³ (minimum of 3 samples per source)
	First Generation i.e. quarried sand (su (break layer)	No testing is required. Certification of material provenance is required.	
Physical Stone Break Layer	Recycled Stone (6F2 / min. fines)	Suite B	1 sample per 500m ³ (minimum of 3 samples per source)

Recommended validation sampling requirements for environmental capping layer soils.

Notes:

Suite A - Heavy metals, pH, water soluble sulphate, speciated PAH, soil organic matter and asbestos screen.

Suite B - Heavy metals, pH, water soluble sulphate, speciated PAH, phenol, total and free cyanide, soil organic matter, asbestos screen, banded petroleum hydrocarbons (TPH CWG), BTEX, MTBE.

ENVIRONMENTAL COVER LAYER

Private Gardens

Private garden areas should comprise a cover layer depth of at least 450mm. A typical construction detail is provided below. Subsoil may be replaced by topsoil if required.

GROUND LEVEL

450mm (minimum)		150mm (minimum) chemically validated TOPSOIL
		200mm chemically validated SUBSOIL
		100mm PHYSICAL BREAK LAYER (typically MOT Type 1)
		Existing MADE GROUND

Soft Landscaped Areas and Front Gardens

Soft landscaping areas and front gardens should comprise a cover layer depth of at least 300mm. A typical construction detail is provided below:

GROUND LEVEL

300mm (minimum)		200mm (minimum) chemically validated TOPSOIL
		100mm PHYSICAL BREAK LAYER (typically MOT Type 1)
		Existing MADE GROUND

If suitable break layer material is not available, then the **break layer may be substituted for a separation geotextile** and the subsoil / topsoil depth increased by 100mm to maintain the required capping layer material depth.

Appendix B – Certificates of Analysis – Imported Soil



2183



Final Report

Report No.: 18-00954-1

Initial Date of Issue: 19-Jan-2018

Client LK Consult

Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Contaminated Land
Paul Quimby

Project LKC 16 1066 MMU Didsbury

Quotation No.: **Date Received:** 15-Jan-2018

Order No.: 735877 **Date Instructed:** 15-Jan-2018

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 19-Jan-2018

Date Approved: 19-Jan-2018

Approved By:

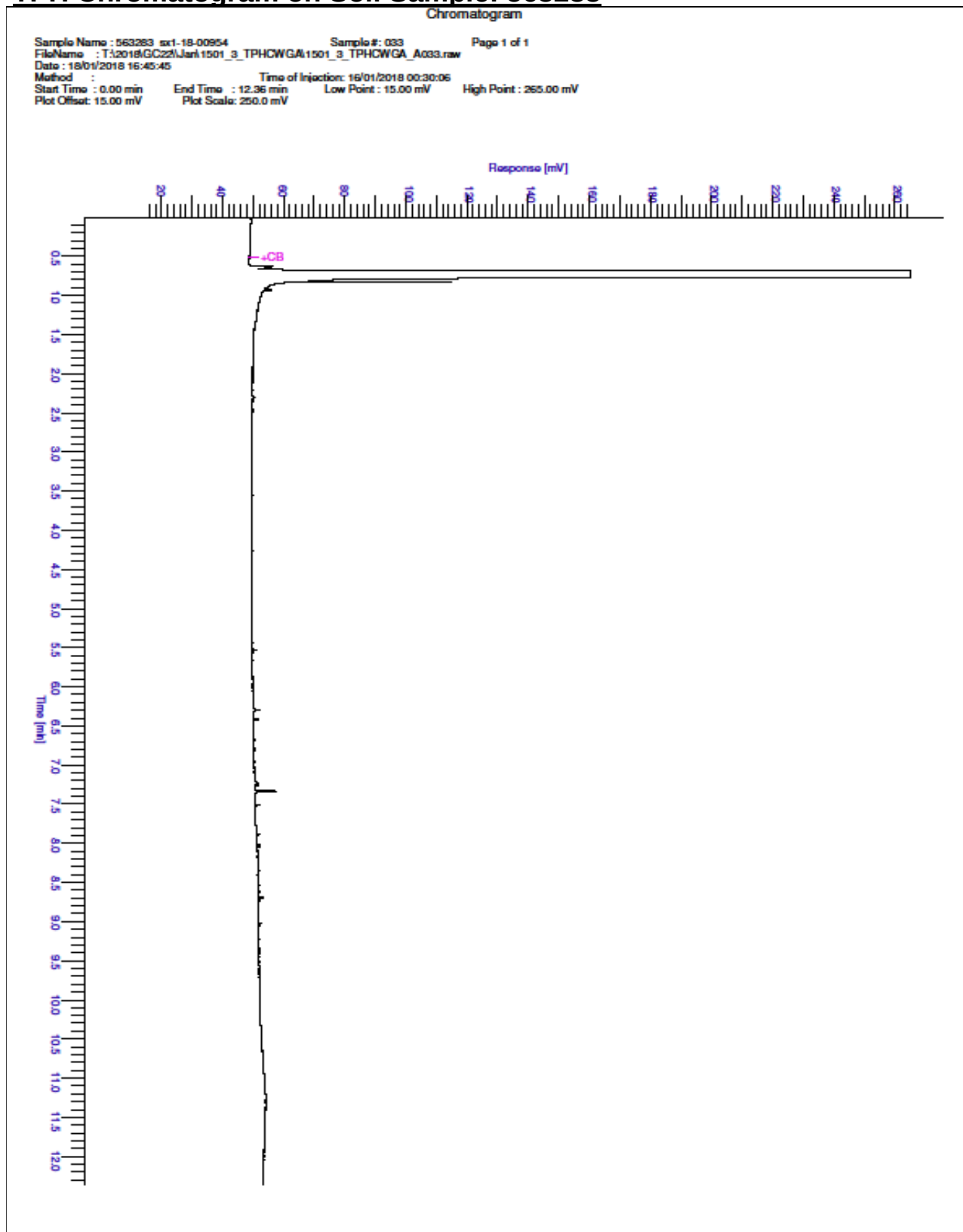
Details: Martin Dyer, Laboratory Manager

Project: LKC 16 1066 MMU Didsbury

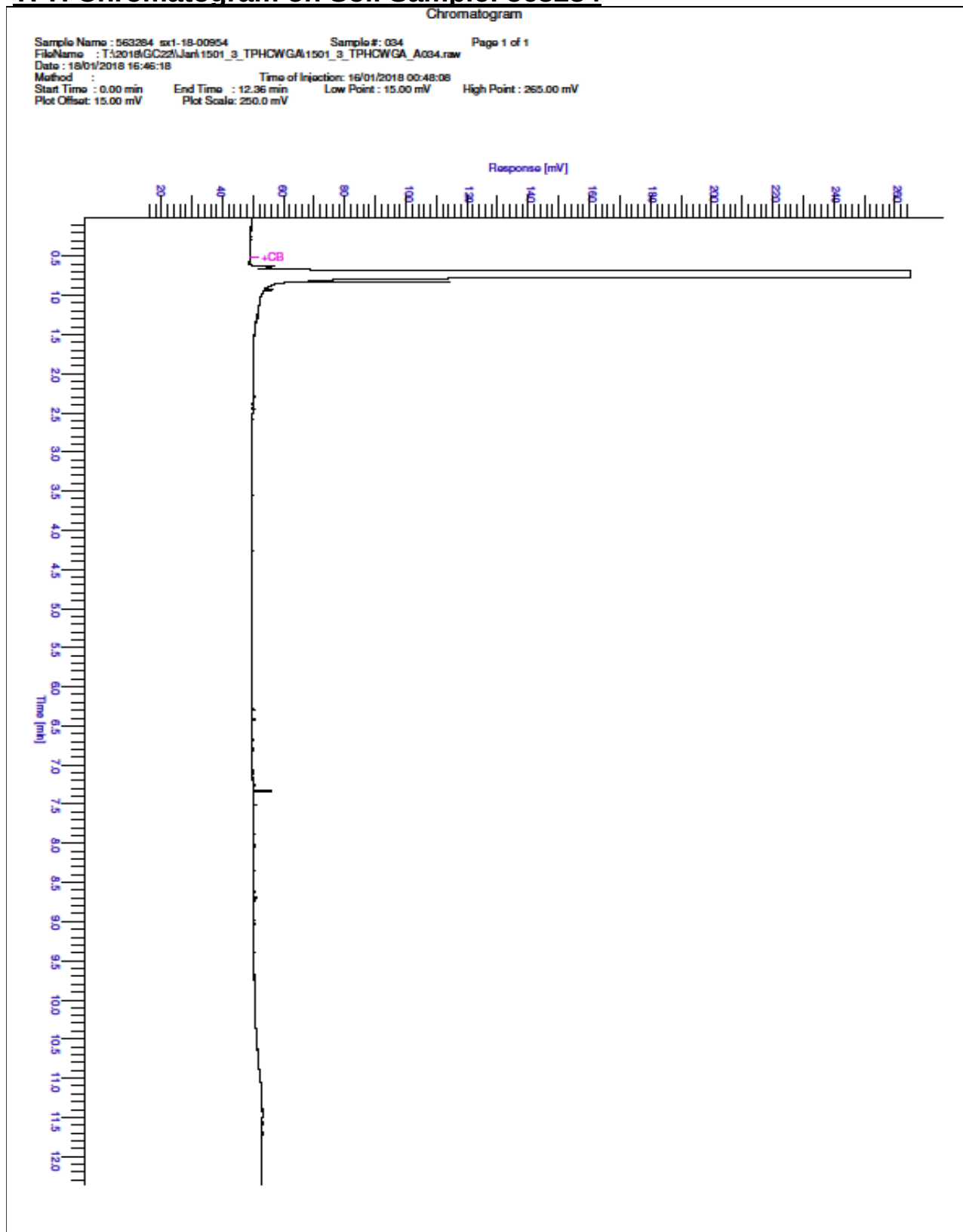
Client: LK Consult	Chemtest Job No.:				18-00954	18-00954	18-00954
Quotation No.:	Chemtest Sample ID.:				563283	563284	563285
	Client Sample ID.:				TS301	TS302	TS303
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				11-Jan-2018	11-Jan-2018	11-Jan-2018
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	20	21	22
Soil Colour	N	2040		N/A	Brown	Brown, Grey	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Stones	Sand	Sand, Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached
pH	M	2010		N/A	7.8	7.8	7.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.85	0.72	0.78
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.17	0.12	0.060
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	11	15	14
Cadmium	M	2450	mg/kg	0.10	0.27	0.35	0.34
Chromium	M	2450	mg/kg	1.0	18	20	19
Copper	M	2450	mg/kg	0.50	41	46	50
Mercury	M	2450	mg/kg	0.10	0.30	0.34	0.37
Nickel	M	2450	mg/kg	0.50	17	18	19
Lead	M	2450	mg/kg	0.50	90	94	110
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	22	23	22
Zinc	M	2450	mg/kg	0.50	85	87	100
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	5.9	5.0	5.3
Fuel Type	N	2670		N/A	PAH/H.oil	PAH	PAH
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	65	11	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	65	11	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	1.6

Client: LK Consult	Chemtest Job No.:				18-00954	18-00954	18-00954
Quotation No.:	Chemtest Sample ID.:				563283	563284	563285
	Client Sample ID.:				TS301	TS302	TS303
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				11-Jan-2018	11-Jan-2018	11-Jan-2018
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	1.2	< 1.0	4.6
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	97	12	18
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	98	12	24
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	160	22	24
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.23
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.25
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	0.90	0.68	1.7
Anthracene	M	2800	mg/kg	0.10	0.12	< 0.10	0.29
Fluoranthene	M	2800	mg/kg	0.10	2.3	1.4	2.9
Pyrene	M	2800	mg/kg	0.10	2.4	1.4	2.8
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.85	0.37	1.1
Chrysene	M	2800	mg/kg	0.10	1.1	0.62	1.2
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	1.2	0.54	1.4
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.33	0.12	0.31
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.89	0.39	0.92
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.40	0.14	0.43
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.59	0.31	0.61
Total Of 16 PAH's	N	2800	mg/kg	2.0	11	6.0	14
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30

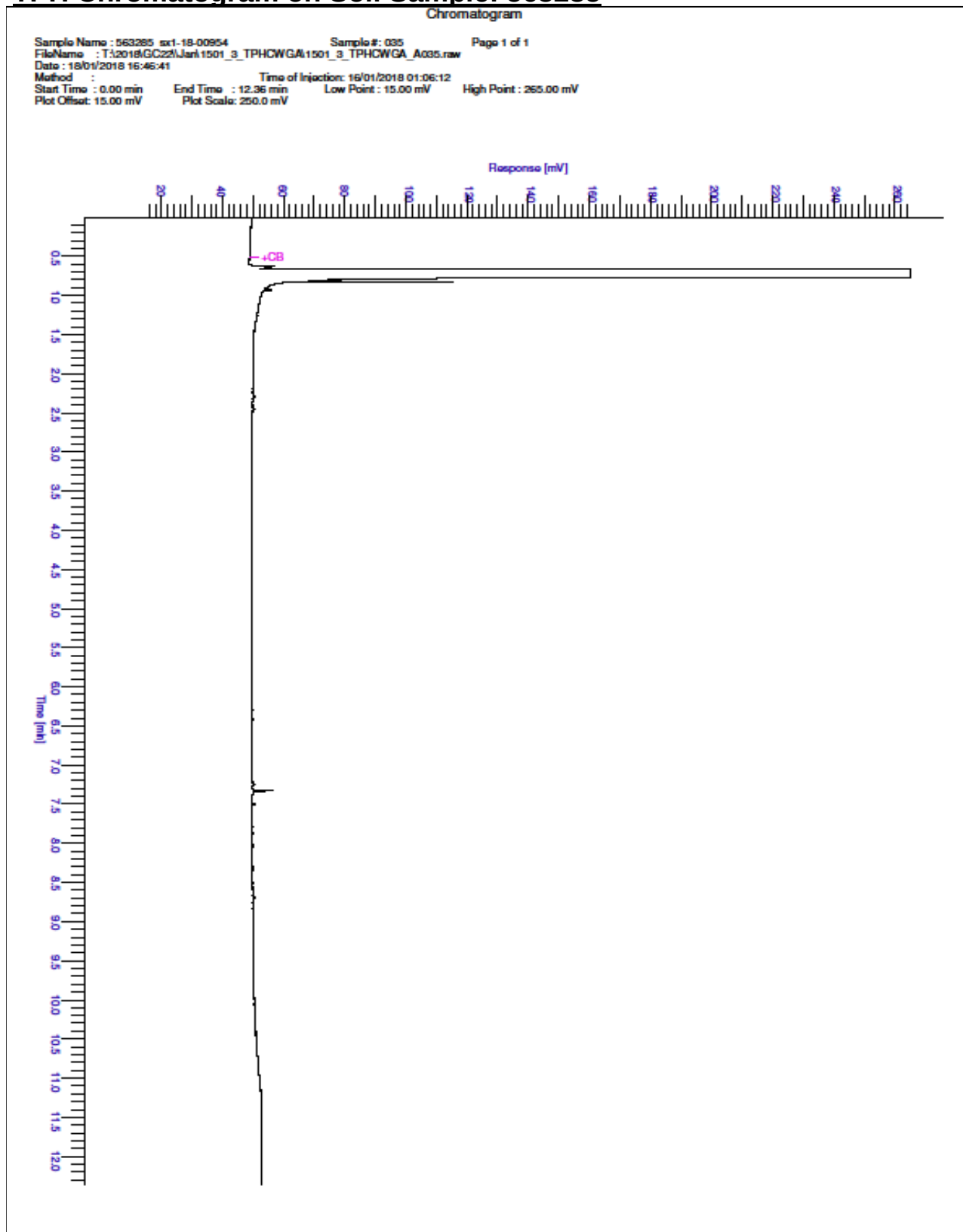
TPH Chromatogram on Soil Sample: 563283



TPH Chromatogram on Soil Sample: 563284



TPH Chromatogram on Soil Sample: 563285



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
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
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.
2450	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.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
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
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

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"

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 45 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.co.uk

Appendix C – Plot Photographs

Plot 26



Photograph 1:

View of front garden of Plot 26. The garden is fully hardstood.



Photograph 2:

View of the rear garden of Plot 26.



Photograph 3:

View of soil in capping layer excavation in rear garden of Plot 26 with geotextile membrane visible.



Photograph 4:
Depth measurement in rear garden of Plot 26.

Plot 27



Photograph 5:
View of front garden of Plot 27.



Photograph 6:
View of soil in capping layer excavation in front garden of Plot 27 with geotextile membrane visible.



Photograph 7:
Depth measurement in front garden of Plot 27.



Photograph 8:
View of the rear garden of Plot 27.



Photograph 9:
View of soil in capping layer excavation in rear garden of Plot 27 with geotextile membrane visible.



Photograph 10:
Depth measurement in rear garden of Plot 27.

Plot 28



Photograph 11:
View of front garden of Plot 28.



Photograph 12:
View of soil in capping layer excavation in front garden of Plot 28 with geotextile membrane visible.



Photograph 13:
Depth measurement in front garden of Plot 28.



Photograph 14:
View of the rear garden of Plot 28.



Photograph 15:
View of soil in capping layer excavation in rear garden of Plot 28 with geotextile membrane visible.



Photograph 16:
Depth measurement in rear garden of Plot 28.