

C&L Developments

F.A.O. Mr Paul Spratt

Our Ref: 16671/LR/JSH

10th July 2019

Dear Paul

RE: Additional Site Investigation

We are writing in regard to additional site investigation work undertaken in the area of TP1 (Soils Limited Report Ref: 16671 Phase II GIR dated February 2018), where asbestos containing material (ACM) was identified.

Brief

Soils Limited attended site on the 4th June 2019 to undertake additional sampling in the area of TP1 to delineate the extent of the asbestos identified in the form of loose fibres as part of the ground investigation reported in Soils Limited report ref 16671 Phase II GIR dated February 2018.

Site Works

On the 4th June, Soils Limited excavated a trial hole in the approximated area of TP1 to delineate the extent of the asbestos identified in the Soils Limited investigation undertaken in February 2018. During the excavation works suspected asbestos containing material was encountered at a depth of 0.50 – 0.60m bgl, associated with a dark brown soil horizon containing brick material. The asbestos containing material was in the form of fragments of brown tiles.

On uncovering this material Soils Limited, carefully backfilled the excavation and advised Crayfern Homes of the findings and advised that an Asbestos Specialist must be contacted, and the asbestos material sampled.

Hampshire Environmental Services acting as Crayfern Homes Asbestos specialist visited site and undertook the excavation of five trial holes, designated as Red, Blue, Yellow, Green and Pink on the 5th, 7th and 10th June 2019. One sample was taken from the Red trial hole. The testing undertaken as part of the works undertaken by Hampshire Environmental Services identified the tile material in trial pit Red as containing chrysotile. It is understood that this material was removed under the supervision of Hampshire Environmental Services to an appropriately licensed landfill by a competent and licensed haulage company.

No additional sampling was undertaken in the other trial holes (Blue, Yellow, Green and Pink) by Hampshire Environmental Services to delineate the asbestos identified

A letter report detailing their findings and disposal details is presented in Appendix A.

Crayfern Homes collected three soil samples from around trial pit Red (Sample 1, Sample 2 and Sample 3) at the same depth at which the asbestos material was encountered in trial hole Red (0.50m bgl) These samples were submitted to the laboratories of DETS for asbestos screening.

Chemical Analysis

The three samples taken at depths of 0.50m bgl were provided by the client, Crayfern Homes and submitted to the laboratories of DETS for asbestos screening to demonstrate that the asbestos in trial pit Red was localised.

The results of the asbestos screening on the samples did not record any fragments of asbestos or asbestos fibres in the areas surrounding trial pit Red.

The results of the asbestos screening are presented in Appendix B of this letter report.

Conclusions and Recommendations

Soils limited undertook a limited investigation in the area of TP1 to delineate the extent of the loose asbestos fibres encountered within the Soils Limited Report Ref: 16671 Phase II GIR dated February 2018. While undertaking this intrusive investigation Soils Limited encountered fragments of asbestos containing material in the form of brown tile fragments. The trial hole was closed and reopened by Hampshire Environmental Services (as trial hole Red) who sampled and removed the material which was identified as Chrysotile.

Crayfern Homes excavated trial holes around trial hole Red and collected samples at the same depth at which the asbestos fragments had been encountered. The results of the analysis did not identify the presence of asbestos.

It is considered on the basis of the results of the samples supplied that the asbestos encountered tested and then removed from within trial hole Red was an isolated area and is unlikely to be representative of wider asbestos contamination. The location of trial hole Red is situated beneath the proposed access road to the development. Therefore, in the unlikely case that any residual fibers remain in the area of trial pit Red, the area will be encapsulated beneath the road and will not therefore represent a risk to future site users, though a copy of the relevant details of this investigation and its findings should be maintained as an asbestos register in relation to the site so as to comply with dutyholder requirements under the control of asbestos regulations 2012.

Although contamination has been identified and removed, the Discovery Strategy - as detailed in the Soils Limited letter report referenced J16671/LR/RS - must continue to be followed until the completion of the construction phase of the development and compliance with same will form part of the validation and verification that will be required by the regulator to remove the extant environmental planning conditions.

The following attachments make up the remainder of this letter report.

Figure 1 Trial Hole Plan

Appendix A Hampshire Environmental Services Letter Report

Appendix B Results of Asbestos Screening

Should you have any further questions please do not hesitate to contact the undersigned.

Yours Sincerely

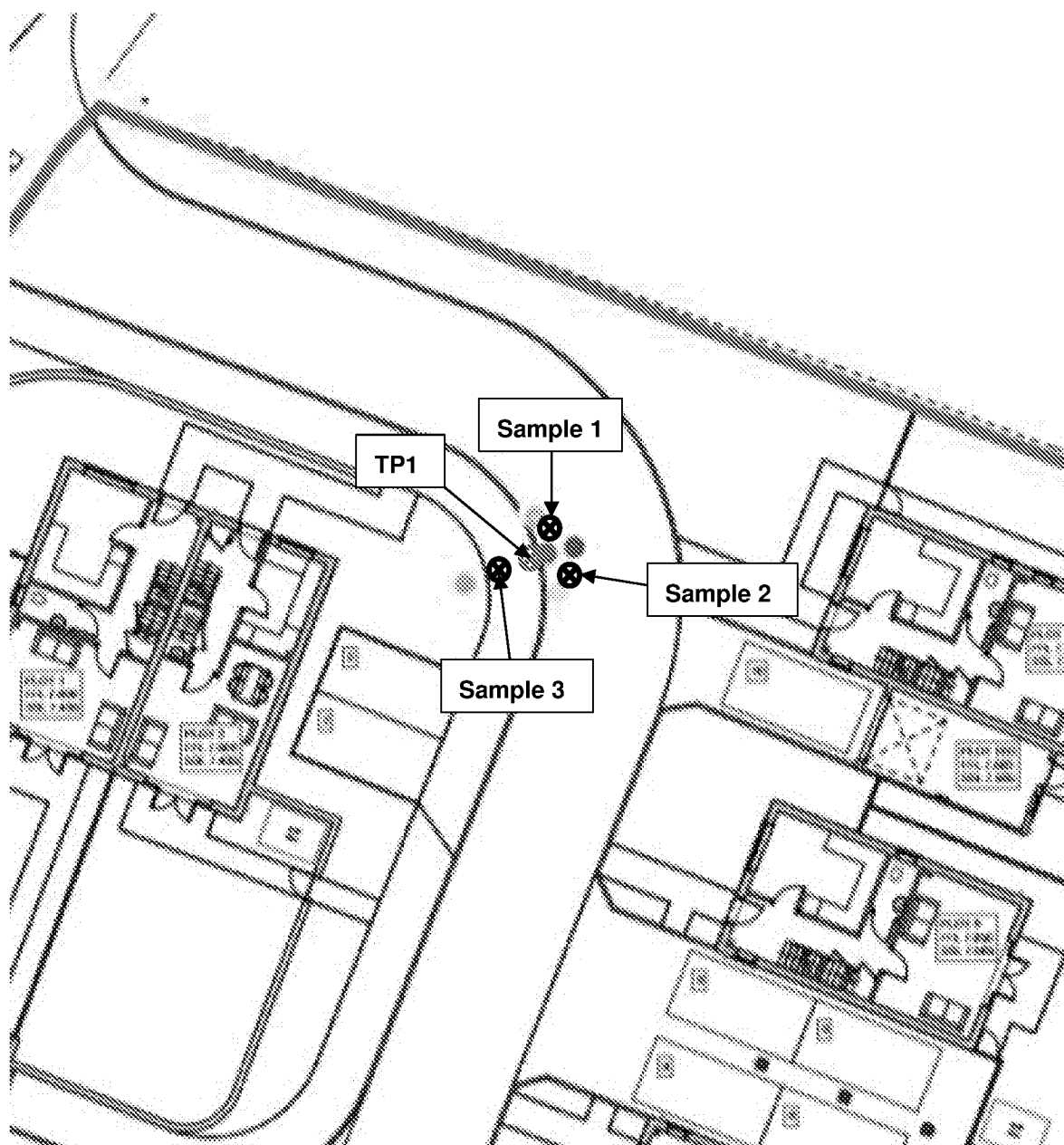
A large black rectangular redaction box covering the signature of J S Hucklesby.

J S Hucklesby MSci FGS MEnvSc

Senior Geo environmental Engineer

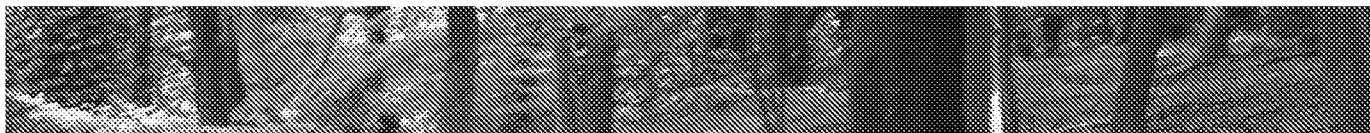
A black rectangular redaction box covering the contact information of J S Hucklesby.

Figure 1 Trial Hole Plan



Appendix A Hampshire Environmental Services Letter Report

Demolition, Asbestos Removal, Surveying & Sampling



Dear Alan,

The debris within the soil at Orchard Business Park have been confirmed positive for low level Asbestos Cement material.

We recommend that the contaminated soil is loaded away into skips and taken to licenced landfill under consignment note and that the precaution of asbestos cement debris being present below the ground through the site.

We have sent the Waste Acceptance Criteria test off to the landfill site and HES can dispose of the contaminated soil for the cost of:

£1050.00 + VAT up to 2 tonnes

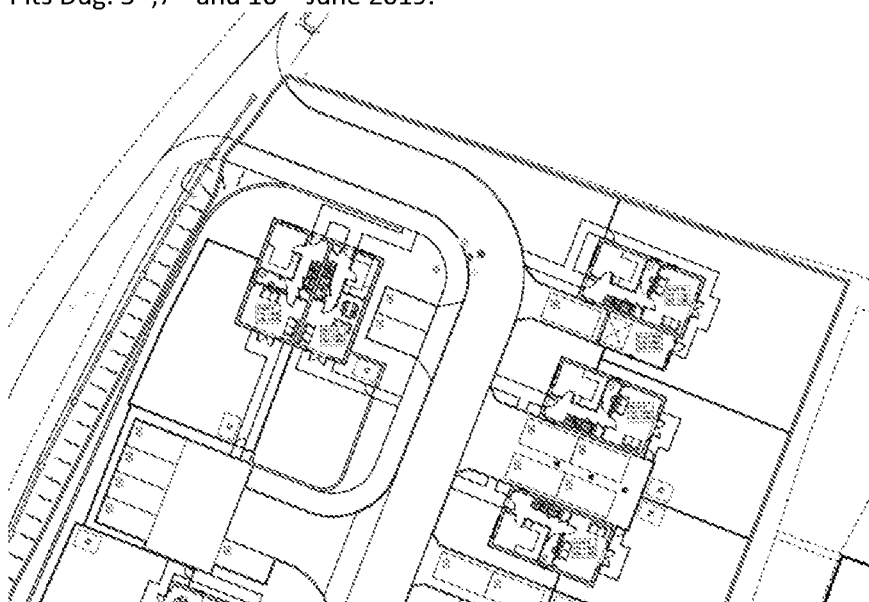
£225.00 + VAT per tonne there after

20yard skip to be lined with polythene and sealed before being collected by HES.
Skip to be filled by other.

Please see below areas checked

Site report showing location and photos of test pits.

Pits Dug. 5th, 7th and 10th June 2019.



1. Red pit. Where suspect material was found. Approximate size 0.9x1.8x1.2 (WxLxD)



2.Blue pit. 0.9x1.5x1.2.



3.Green pit. 0.9x1.5x1.2.

Charlie Braid
Contracts Manager
HES Ltd





Our Ref: 19-16073
Your Ref:
HES012602/SW6761

ENVIROCHEM

Analytical Laboratories Ltd.

12 The Gardens
Broadcut, Fareham
Hampshire
PO16 8SS



Analysis Report

Client: Hampshire Environmental Services
Unit 1 Withy Park
Dutton Lane
Eastleigh
Hampshire
SO50 6AB

Sample Details: 1 soil sample for Waste Acceptance Criteria (WAC) analysis

Date report issued: 12 June 2019

Number of pages (including this one): 4

Accreditation

All analytes marked **M** have been analysed under the scope of our MCERTS accreditation

All analytes marked **U** have been analysed under the scope of our UKAS accreditation

All analytes marked **m** have been subcontracted and analysed under the scope of their MCERTS accreditation

All analytes marked **u** have been subcontracted and analysed under the scope of their UKAS accreditation

All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid.

All comments are beyond the scope of our accreditation.

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated.

This report shall not be reproduced except in full, without written approval of Envirochem.

Signed on behalf of Envirochem by an authorised signatory

Karen O'Connor

Authorised Signatory



LANDFILL WASTE ACCEPTANCE CRITERIA

Client: Hampshire Environmental Services
Sampled By: Client
Date Sampled: Not Supplied
Date Analysis Started: 7 June 2019
Sample Description: Soil - WAC

Site: Orchard Business Park
Sample Details: Orchard Business Park, North End
Date Received: 7 June 2019
Date Completed: 12 June 2019

Table 1: parameters determined on whole sample (all results in mg/kg dry wt except where stated)

Analyte	Method	Sample Lab Ref: Job: 19-16073 Samp. 43030	Landfill acceptance criteria for Inert waste	Stable non-reactive hazardous waste in non-hazardous	Hazardous waste landfill
Mineral oil (C10 - C40)	6.04	267	500	---	---
Loss on ignition (%)	5.01, 6.09	2.4	---	---	10 %
Total Organic Carbon (%)	6.07	1.9	3 %	5 %	6 %
BTEX	6.11	< 1.0	6	---	---
PCBs (7 congeners)	6.06	< 1.0	1	---	---
PAHs	6.05	3.6	100	---	---
% water (105°C)	6.01	15.5	---	---	---

Table 2: parameters determined on leachate (all results in mg leached per kg dry material)

Analyte	Method	Sample Lab Ref: Job: 19-16073 Samp. 43030	Landfill acceptance criteria for Inert waste	Stable non-reactive hazardous waste in non-hazardous	Hazardous waste landfill
Arsenic U	5.04, 6.08	< 0.20	0.5	2	25
Antimony	5.04, 6.08	< 0.050	0.06	0.7	5
Barium U	5.04, 6.08	0.34	20	100	300
Cadmium U	5.04, 6.08	< 0.030	0.04	1	5
Chromium (total) U	5.04, 6.08	< 0.30	0.5	10	70
Copper U	5.04, 6.08	< 0.30	2	50	100
Lead U	5.04, 6.08	0.82	0.5	10	50
Mercury U	5.04, 6.08	0.017	0.01	0.2	2
Molybdenum	5.04, 6.08	< 0.20	0.5	10	30
Nickel U	5.04, 6.08	< 0.20	0.4	10	40
Selenium	5.04, 6.08	0.11	0.1	0.5	7
Zinc U	5.04, 6.08	0.60	4	50	200
Sulphate	5.04, 6.02	1030	1000	20000	50000
Fluoride	5.04, 6.02	< 3.0	10	150	500
Chloride	5.04, 6.02	21.0	800	15000	25000
Phenol index	5.04, 6.19	< 1.00	1	---	---
pH (pH units)	6.03	8.87	To be set	> 6	---
Total dissolved solids	5.04, 6.12	1620	4000	60000	100000
Dissolved organic carbon	5.04, 6.07	50.3	500	800	1000

All analytes marked U have been analysed under the scope of our UKAS accreditation

Comments: (comments are beyond the scope of UKAS accreditation)



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Table 3: parameters determined on aqua regia digest (all results in mg/kg dry weight)

Analyte	Method	Sample Lab Ref: Job: 19-16073 Samp. 43030	Soil Guideline Values		
			Residential	Allotment	Commercial
Arsenic	5.16, 6.08	16.8	37†	43 †	640 †
Antimony	5.16, 6.08	< 5.0	—	—	—
Barium	5.16, 6.08	589 *	—	—	—
Cadmium	5.16, 6.08	1.4 *	11†	1.9†	190†
Chromium (total)	5.16, 6.08	36.3 *	—	—	—
Cobalt	5.16, 6.08	9.5	—	—	—
Copper	5.16, 6.08	74.2 *	2400†	520†	68000†
Mercury	5.16, 6.08	< 1.00	1.2 †	21†	25.8†
Molybdenum	5.16, 6.08	< 5.0	—	—	—
Nickel	5.16, 6.08	22.1 *	180 †	230 †	980 †
Lead	5.16, 6.08	643 *	210 ††	84 ††	1100 ††
Selenium	5.16, 6.08	< 2.0	250 †	88 †	12000 †
Thallium	5.16, 6.08	< 2.0	—	—	—
Vanadium	5.16, 6.08	42.4	410 †	91 †	9000 †
Zinc	5.16, 6.08	564 *	3700 ††	620 ††	73000 ††

All analytes marked U have been analysed under the scope of our UKAS accreditation

Percentage of soil >2mm not digested	5.01	50
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Comments: (comments are beyond the scope of UKAS accreditation)

Limits labelled '†' are LQM/CIEH S4ULs (suitable 4 use levels) taken from The LQM/CIEH S4ULs for Human Risk Assessment published by Land Quality Press 2015

Limits labelled '††' are provisional C4SLs (Category 4 Screening Levels) taken from Appendix H Provisional C4SLs for Lead, these are based upon soil guideline values published by DEFRA and the HPA Compendium of Chemical Hazards document



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Table 4: PAH in soil (all results in mg/kg dry weight)

Analyte	Method	Sample Lab Ref: Job: 19-16073 Samp. 43030	Soil Guideline Values		
			Residential	Allotment	Commercial
PAH (total)	6.05	3.6	—	—	—
Naphthalene	6.05	< 0.10	2.3	4.1	190
Acenaphthylene	6.05	< 0.10	170	28	83000
Acenaphthene	6.05	< 0.10	210	34	84000
Fluorene	6.05	< 0.10	170	27	63000
Phenanthrene	6.05	< 0.10	95	15	22000
Anthracene	6.05	0.16	2400	380	520000
Fluoranthene	6.05	0.35	280	52	23000
Pyrene	6.05	0.31	620	110	54000
Benz(a)anthracene	6.05	0.22	7.2	2.9	170
Chrysene	6.05	0.24	15	4.1	350
Benzo(b)fluoranthene	6.05	0.31	2.6	0.99	44
Benzo(k)fluoranthene	6.05	0.26	77	37	1200
Benzo(a)pyrene	6.05	0.32	2.2	0.97	35
Dibenz(a,h)anthracene	6.05	0.90	0.24	0.14	3.5
Benzo(g,h,i)perylene	6.05	0.26	320	290	3900
Indeno(1,2,3-c,d)pyrene	6.05	0.18	27	9.5	500

Comments: (comments are beyond the scope of UKAS accreditation)

Limits are LQM/CIEH S4ULs (suitable 4 use levels) taken from "The LQM/CIEH S4ULs for Human Risk Assessment published by Land Quality Press 2015" and based upon 1% Soil Organic Matter

Table 5: TPH in soil (all results in mg/kg dry weight)

Analyte	Method	Sample Lab Ref: Job: 19-16073 Samp. 43030	Soil Guideline Values		
			Residential	Allotment	Commercial
TPH total (C10 - C40)	6.04	267	—	—	—
TPH aromatic (C8 - C10)	6.04	< 5.00	34	8.6	3500
TPH aromatic (C10 - C12)	6.04	< 5.0	74	13	16000
TPH aromatic (C12 - C16)	6.04	5.3	140	23	36000
TPH aromatic (C16 - C21)	6.04	11.8	260	46	28000
TPH aromatic (C21 - C40)	6.04	157	1100	370	28000
TPH aliphatic (C8 - C10)	6.04	< 5.00	27	320	2000
TPH aliphatic (C10 - C12)	6.04	6.5	130	2200	9700
TPH aliphatic (C12 - C16)	6.04	10.8	1100	11000	59000
TPH aliphatic (C16 - C21)	6.04	10.5	65000	260000	1600000
TPH aliphatic (C21 - C40)	6.04	62.1	65000	260000	1600000



ENVIROCHEM
Analytical Laboratories Ltd.
12 The Gardens
Broadcut, Fareham
Hampshire
PO16 8SS



Our Ref: J169131 FL: 1
Your Ref:
Date: 13/06/2019

Asbestos Fibre Identification Report

Client: Hampshire Environmental Services
Unit 1 Withy Park, Dutton Lane, Eastleigh, Hampshire, SO50 6AB

Site Address: Orchard Business Park, -

Sampled By: Hampshire Environmental Services

Date sampled/received: 7th June 2019

Date analysed: 13th June 2019

Analyst/s: Matt Hurst

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
1	BS557285	Soil sample	Yes	Chrysotile

NOTES:

1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
3. Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE:

Authorised signatory

PRINT NAME: Frances Scott

Reg. No. 2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS.

Appendix B Results of Asbestos Screening



Chris Swainston
Soils Ltd
Newton House
Cross Road
Tadworth
Surrey
KT20 5SR

DETS Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN

DETS Report No: 19-09511

Site Reference: Orchard Business Park

Project / Job Ref: 16671

Order No: 16671/CS

Sample Receipt Date: 04/07/2019

Sample Scheduled Date: 04/07/2019

Report Issue Number: 1

Reporting Date: 08/07/2019

Authorised by:

Dave Ashworth
Deputy Quality Manager

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.



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN



Soil Analysis Certificate						
DETS Report No: 19-09511	Date Sampled	02/07/19	02/07/19	02/07/19		
Soils Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Orchard Business Park	TP / BH No	Sample 1	Sample 2	Sample 3		
Project / Job Ref: 16671	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: 16671/CS	Depth (m)	0.50	0.50	0.50		
Reporting Date: 08/07/2019	DETS Sample No	419443	419444	419445		

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 19-09511

Soils Ltd

Site Reference: Orchard Business Park

Project / Job Ref: 16671

Order No: 16671/CS

Reporting Date: 08/07/2019

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received