

Our Ref: 1935 R07 231130 GVLR Plot 2 Issue1

30th November 2023

Hatch Homes (Blofield) Limited, Sixty-Six North Quay, Great Yarmouth, Norfolk NR30 1HE

Attn: Mr Jack Pointer

Dear Jack,

Re: Garden Validation Letter Report for The Piggeries, Yarmouth Road, Blofield – Plot 2.

1 BACKGROUND

Green Earth Management Company Limited (GEMCO) were commissioned by Hatch Homes (Blofield) Limited (the Client) to undertake garden validations at Blofield (the Site, shown at Figure 1) and to provide a Verification (Validation) Report.

The Site was a roughly rectangular parcel (area c.0.8 Ha) located to the south of Yarmouth Road, Blofield, Norfolk NR13 4JS (Figure 1), centred upon the British National Grid (BNG) Reference (TG) 632811, 309473.

The Client is redeveloping the Site to residential end-use (Planning Ref: 20150262, issued by Broadland District Council) comprising thirteen (13no.) residential dwellings with associated parking, landscaping, and infrastructure. The development layout is shown in Figure 2.

The Site was previously a poultry farm between the 1950s and 2000. The associated buildings, known to have contained asbestos, were partially destroyed by fire in the 1990s, following which they were restored and converted into a piggery. Demolition waste from the restoration from the fire was used to infill various pits. All structures were removed and the site restored to grassland between 2017 and 2021.

Various Phase I and Phase II Site Investigation works have been undertaken at the Site, reported in February 2015 (R.1, Canham Consulting), January 2018 (R.2, A F Howland), and December 2021 (R.3, GEMCO, Second Issue April 2022) which identified asbestos and Petroleum Hydrocarbon (TPH) contamination within shallow made ground soils (some 1.2-2m thick), as well as pits some 3m deep filled with soil and demolition wastes.

A F Howland prepared a Remediation Method Statement (RMS) in May 2018 (RMS, R.4). Remediation works were undertaken by Remediate Ltd, overseen and verified by GEMCO, and reported in the GEMCO Interim Validation Report in January 2023 (R.5). The remediation/validation works were undertaken to address contamination at the Site in order to make it suitable for a residential end-use.

This letter reports the remaining remediation works carried out at Plot 2 in accordance with the RMS and recommendations of the Interim Validation Report. The plot location is shown on Figure 3.



2 SUMMARY OF SITE INVESTIGATION AND REMEDIATION WORKS PREVIOUSLY COMPLETED

In brief, the Site Investigations and Risk Assessments (R.2, R.3) identified:

- Widespread made ground generally 1.2-2.0mbgl thick, but as deep as 3.0m on one occasion, with variable amounts of anthropogenic materials (brick, concrete, asphalt) as well as occasional fragments of Asbestos Containing Material (ACM); and
- Localised Total Petroleum Hydrocarbon and Asbestos Contaminated Soil (ACS).

The key elements of the Remediation Strategy (R.4) were:

- The removal of Petroleum Hydrocarbon Contaminated Soil from the location of TP113;
- The removal of ACS from the location of TP154;
- The excavation of all soils unsuitable for a residential setting to natural soil and hand-picking/ mechanical screening of ACMs from the arisings;
- Backfilling of excavations with clean as-dug or imported material (if required) to 250mm below the Finished Floor Level (FFL, a.k.a. the Formation Level);
- Implementation of a Cover System (250mm thick) in Garden and Soft Landscaping areas; and
- Verification and validation testing of the works undertaken including validation in private gardens and open landscaped areas.

3 OUTSTANDING REMEDIATION WORKS

Bulk remediation works (i.e., site clearance, excavation and screening of contaminated soils, removal of unsuitable soils from the Site) were undertaken in June/July 2022, as reported in the Interim Validation Report (R.5). The following remediation and validation work remain outstanding:

- Reinstatement and validation of private gardens and softstanding areas (Cover System); and
- Validation Reporting of private garden plots and public/private communal softstanding areas.

The remediation validation criteria for the soils used for reinstatement within the Cover System (also referred to as "capping layer") are presented in the RMS (R.4). In brief, the reinstated soils should broadly comprise the following:

- **Private gardens**: ≥0.25m of suitable validated topsoil; and
- Landscaping Areas (POS/softstanding not in gardens): ≥0.25m of suitable validated topsoil.

Inspections would be required in three (3no.) locations per garden plot and one (1no.) location per landscaped (non-garden) area. Validation testing would be required at a minimum frequency of one (1no.) sample per garden plot.

The Soil Assessment Criteria (SAC) for validations are reproduced in Appendix 3.



4 SITE WORKS

GEMCO visited the Site on 9th October, 2nd November, and 20th November 2023 to inspect Cover System soils used in the garden and Open Space/Landscaping at Plot 2, and obtain samples of the topsoil for laboratory analysis.

A selection of photographs taken during the site works are presented in Appendix 1.

The topsoil was present from ground level to \geq 0.25mbgl, and comprised dark brown sandy clayey topsoil with occasional fine to medium gravel of flint.

The subsoil beneath comprised light brown slightly clayey slightly gravelly sand. Gravel was fine to medium rarely coarse flint.

The approximate location of in-situ inspections and sampling is shown at Figure 3 and the laboratory test results are presented in Appendix 2.

5 LABORATORY TESTING

The validation samples obtained were submitted to an MCERTS accredited laboratory for testing as soon as possible following recovery.

One (1no.) soil sample was analysed for a standard suite of contaminants of concern in line with the requirements of the Remediation Method Statement (RMS), which is outlined below:

- Metals Screen Arsenic, Beryllium, Boron (Water Soluble), Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Vanadium and Zinc;
- Organics Screen Total Petroleum Hydrocarbons (TPH) with Criteria Working Group (CWG) banding, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Polyaromatic Hydrocarbons (PAH) USEPA 16 Suite and Total Monohydric Phenols;
- Inorganics Screen Cyanide (Total) and Water-Soluble Sulphate; and
- Others Asbestos, pH and Total Organic Carbon (TOC).

An additional six (6no.) samples were tested for the contaminants of concern (asbestos and/or hydrocarbons).

The laboratory reports are included in Appendix 2.

6 ASSESSMENT OF THE RESULTS

The soil quality has been assessed against the remediation criteria (Soil Assessment Criteria, SAC) for a residential garden with homegrown produce (RwHP) presented at Appendix 3.

None of the samples, shown at Appendix 2, identified any chemical determinands exceeding the assessment criteria in the in-situ soils. Additionally, no asbestos was detected.

Furthermore, no exceedance of the screening criteria for plants was identified.

Green Earth Management Company Limited trading as GEMCO Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129 Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22



7 CONCLUSIONS

Soils at Plot 2 were inspected by GEMCO in October and November 2023.

Samples of topsoil were obtained for validation testing purposes from the garden and landscaping areas at Plot 2.

Based on the inspection observations and chemical analysis of the samples obtained, the topsoil and subsoil are not considered to present a significant risk to human health or plants, and the soil depths were in accordance with the RMS (R.4).

Therefore, on the basis of the site inspections and chemical analysis results received, it is considered that the soils in the garden of Plots 2 are suitable for the residential end-use.

We advise that a copy of this letter and the results are provided to the Local Authority and Building Warranty provider in support of discharge of relevant land quality conditions.

If you have any queries, please do not hesitate to contact us.

Yours sincerely, On behalf of Green Earth Management Company Limited

S. C. Stanley

Stuart Stanley Graduate Environmental Consultant

Enc. Figure 1: Site Location Plan Figure 2: Proposed Development Layout Plan Figure 3: Validation Inspection Plan Appendix 1: Site Photographs Appendix 2: Chemical Laboratory Results Appendix 3: Generic Assessment Criteria



8 **REFERENCES**

- R.1. Canham Consulting Limited, Contaminated Land Assessment, Manor Farm, Blofield, 204435 Rev 1, Feb 2015;
- R.2. A F Howland Associates Limited, A Phase II Contamination Assessment for Submission in Support of Planning Permission Referenced 20150262 For A Proposed Residential Development at Manor Farm, Yarmouth Road, Blofield, NR13 4JS, Ref. BJH/17.480/Phase2, January 2018;
- R.3. Green Earth Management Company (GEMCO) Limited, Phase II Geotechnical Assessment, The Former Piggeries, Yarmouth Road, Blofield, Norfolk NR13 4JS, Ref 1935 R01: Issue 2, April 2022;
- R.4. A F Howland Associates Limited, A Remediation Method Statement and Verification Plan Prepared in Support of a Proposed Residential Development at Manor Farm, Yarmouth Road, Blofield, NR13 4JS, Ref. BJH/17.480/RMS, May 2018;
- R.5. Green Earth Management Company (GEMCO) Limited, Interim Validation Report, The Former Piggeries, Yarmouth Road, Blofield, Norfolk NR13 4JS, Ref 1935 R02: Issue 1, January 2023;
- R.6. Environmental Protection Act 1990: Part IIA, Contaminated Land Statutory Guidance, April 2012;
- R.7. British Standard BS3882: 2015, Specification for Topsoil.





Figure 1 Site Location Plan







Figure 2 Proposed Development Layout Plan







Figure 3 Validation Inspection Plan







Appendix 1 Site Photographs





Picture 03

Picture 04



Picture 05

Picture 06



Pic 01:	Plot 2 overview.	Site:	Date:	Nov 2023	
Pic 02:	Plot 9 E1 validation inspection (09/11/2023).	The Piggeries, Blofield	Project No:	1935 R07	GEMCO
Pic 03:	Plot 9 E1 validation inspection pit (09/11/2023).	Title:	Issue:	Issue 1	Green Earth Management Company Ltd Suite 3, Broomfield Park,
Pic 04:	Plot 9 E3 validation inspection (09/11/2023).	Appendix 1 - Site Photographs	Page No:	1 of 1	Coggeshall Road, Earls Colne,
Pic 05:	Plot 9 E3 validation inspection pit (09/11/2023).	Client:	Drawn by:	SCS	Essex CO6 2JX
Pic 06:	Plot 9 POS E1 validation inspection pit (20/11/2023).	Hatch Homes (Blofield) Ltd	Checked by:	CU	Tel: 01245 206 129 www.gemcoltd.co.uk



Appendix 2 Chemical Laboratory Results





Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd Unit 1 Rose Lane Industrial Estate Rose Lane Lenham Heath Kent ME17 2JN t: 01622 850410

DETS Report No: 23-12816

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231011
Sample Receipt Date:	16/10/2023
Sample Scheduled Date:	16/10/2023
Report Issue Number:	2
Reporting Date:	13/11/2023

Authorised by:

Sil

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request. This report supersedes 23-12816, issue no.1. 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.





Soil Analysis Certificate				
DETS Report No: 23-12816	Date Sampled	09/10/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 2 TS		
Project / Job Ref: 1935	Additional Refs	E1		
Order No: 1935 231011	Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2023	DETS Sample No	680486		

Determinand		RL	Accreditation				
Asbestos Screen (S)	N/a	N/a		Not Detected			
pH	pH Units	N/a		7.8			
Total Cyanide	mg/kg	< 1	NONE	< 1			
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	2435			
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.24			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	839			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.84			
Sulphide	mg/kg	< 5	NONE	34			
Organic Matter (SOM)	%	< 0.1	MCERTS	3.2			
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	1.9			
Arsenic (As)	mg/kg	< 2	MCERTS	10			
Barium (Ba)	mg/kg	< 2.5	MCERTS	59			
Beryllium (Be)	mg/kg	< 0.5	MCERTS	< 0.5			
W/S Boron	mg/kg	< 1	NONE	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2			
Chromium (Cr)	mg/kg	< 2	MCERTS	12			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2			
Copper (Cu)		< 4	MCERTS	26			
Lead (Pb)	mg/kg	< 3	MCERTS	102			
Mercury (Hg)		< 1	MCERTS	< 1			
Nickel (Ni)		< 3	MCERTS	10			
Selenium (Se)		< 2	MCERTS	< 2			
Vanadium (V)		< 1	MCERTS	21			
Zinc (Zn)	mg/kg	< 3	MCERTS	131		Ī	
Total Phenols (monohydric)		< 2	NONE	< 2		Ī	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion Subcontracted analysis (S)





Soil Analysis Certificate						
DETS Report No: 23-1281			Date Sampled	09/10/23		
Green Earth Management Co Ltd			Time Sampled	None Supplied		
Site Reference: Blofield			TP / BH No	Plot 2 TS		
Project / Job Ref: 1935			Additional Refs	E1		
Order No: 1935 231011			Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2	023	D	ETS Sample No	680486		
Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	0.27		
Pyrene	mg/kg	< 0.1	MCERTS	0.26		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.13		
Chrysene	mg/kg	< 0.1	MCERTS	0.19		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.26		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.21		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.11		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6		





Soil Analysis Certificate	- TPH CWG Banded	1				
DETS Report No: 23-128			Date Sampled	09/10/23		
Green Earth Management	Green Earth Management Co Ltd Tin			None Supplied		
Site Reference: Blofield			TP / BH No	Plot 2 TS		
Project / Job Ref: 1935			Additional Refs	E1		
Order No: 1935 231011			Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2	023	D	ETS Sample No	680486		
Determinand		RL	Accreditation			
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01		
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05		
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2		
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2		
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3		
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3		
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10		
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21		
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01		
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05		
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2		
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2		
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2		
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	 	
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	 	
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21		
Total >C5 - C35	mg/kg	< 42	NONE	< 42		





Soil Analysis Certificate - BTEX / MTBE				
DETS Report No: 23-12816	Date Sampled	09/10/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 2 TS		
Project / Job Ref: 1935	Additional Refs	E1		
Order No: 1935 231011	Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2023	DETS Sample No	680486		
Dotorminand	Init DI Accreditation			

Determinand	Unit	RL	Accreditation			
Benzene	ug/kg	< 2	MCERTS	< 2		
Toluene	ug/kg	< 5	MCERTS	< 5		
Ethylbenzene	ug/kg	< 2	MCERTS	< 2		
p & m-xylene	ug/kg	< 2	MCERTS	< 2		
o-xylene	ug/kg	< 2	MCERTS	< 2		
MTBE	ug/kg	< 5	MCERTS	< 5		





Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-12816	
Green Earth Management Co Ltd	
Site Reference: Blofield	
Project / Job Ref: 1935	1
Order No: 1935 231011	1
Reporting Date: 13/11/2023	1

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
680486	Plot 2 TS	E1	0.00 - 0.20	10.1	Brown sandy clay with stones and brick

Moisture content is part of procedure E003 & is not an accredited test Insufficient Sample $^{\rm US}$ Unsuitable Sample $^{\rm US}$





Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-12816
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231011
Reporting Date: 13/11/2023

Sol D Boron - Ward Soluble Determination of Yatter soluble toorn in sol tw 21 that water control followed by ICP-OES E031 Sol D Chinotie - Water Soluble Determination of Text by handpace Co-OES E031 Sol D Chinotie - Water Soluble Co-OES E031 Sol D Chinotie - Water Soluble Co-OES E032 Sol AR Chinomum - Revealent 1, 3 dishminition of controls with a water of analysis of controls of controls with a solution of the controls of controls with a solution of the controls with a solution of th	Matrix	Analysed	Determinand	Brief Method Description	Method
Gold AR TEX Determination of TEX by heappage C-V5 Constrained and the second and the second determination of another set and the set analysed by ion chromotypatry E001 Soil D Chronie. Water Souke (2:1) Determination of chronic in sub varies analysed by ion chromotypatry E003 Soil AR Chronie. Thexaverent E003 Soil AR Chronie. Complex Determination of complex operate by distiliation followed by colonnetry E003 Soil AR Constance: Complex Determination of total cyacide by distiliation followed by colonnetry E013 Soil AR Constance: Complex Determination of total cyacide by distiliation followed by colonnetry E013 Soil AR Exercised constantion Constantion E004 Soil AR Exercised constantion Constantion E004 E004 E002 E004 E004 E002 E004	Soil	On	Boron - Wator Solubla	Determination of water coluble baren in cell by 2:1 bet water extract followed by ICD OES	No
Soil D Cators Determination of cators in soil to aqui-regal dispetition followed by CPOES [000] Soil AR Choinder Vatter Subleck (D) Determination of heavaler chorinum in soil by patienticion in waiter the MacRineador MacRinador MacRineador MacRinador MacRine					-
501 D Chicolia - Visiter Soluble (2): Determination of chicolia by extraction with wet 8 analyeed by ion chromatography 500 601 AR Chronium - Hosavaler (Chronium is obly extraction in water them by additication, addition of particular in sol by extraction in water them by additication, addition of particular in sol by extraction with y colorinatry. 601 601 AR Cycloniae - Total Determination of the analyted for extraction with y colorinatry. 601 601 AR Desent Range Deganises (Cli - CA) Determination of the analyted role extraction with y colorinatry. 601 601 AR Electrical Conductive Visite Solution (Cli - CA) Determination of electrical conductively by addition of solution by GC-HD 600 603 AR Electrical Conductive Visite Solution (Cli - CA) Determination of electrical conductively by addition of water followed by electronexit: measurement for adaption for electrical conductively by addition of water followed by Color AG. CFD 600 603 AR Electrical Conductive Visite Solution (Cli - CA) Determination of acatomylocanae estraction with yoeldwice advisorable for electronexitic measurement for advisorable for electronexitic hyoeldwice advisorable for CHD CHD CHD. CFD CO CA CE to CA CE t					
Soil AR Chromium - Heavaker Determination of heavaker chromium in soil by extraction in water them by socialization, solition of soil are solition of the solitic complex determination of complex synable by dollation followed by colorimetry EDIS Soil AR Curanita: Complex Determination of complex synable by dollation followed by colorimetry EDIS Soil D Cyranita: First Determination of complex synable by dollation followed by colorimetry EDIS Soil AR Dised Barge Organics (D1 - CS) Determination of heavale/extreme stratable hydrocarbone by GC-FID EDIA Soil AR Electrical Conductive Determination of electrical conductive by addition of water followed by GC-MS EDIS Soil AR Electrical Conductive Determination of action physicane entratable hydrocarbone by GC-FID EDID Soil AR Electrical Conductive Determination of action physicane entratable hydrocarbone by GC-FID EDID Soil AR EPH Polotic LD EDI by Bearringtion of action physicane entratable hydrocarbone by GC-FID EDID Soil D Entratable System Determination of action physicane analysis of the complex physicane by CC-FID EDID Soil D Entratable System Determination of action of physicane analysis of theaconable phy					
Gold AR Openate-Complex Determination of complex oparade by distillation followed by colorimetry EDIS Science AR Openate-Trans Determination of tratic candid by distillation followed by colorimetry EDIS Science AR Openate-Trans Determination of tratic candid by distillation followed by colorimetry EDIS Science AR Openate-Trans Determination of tratic candid by distillation followed by colorimetry EDIS Science AR Determination of transmitted by distillation followed by colorimetry EDIS Science AR Electrical Conductive Determination of electrical conductive by solution of water followed by electronetic measurement EDIS Science AR Electrical Conductive Determination of action Phosane extratable hydrocarbon by GC-FID EDIS Science AR Electrical Conductive Determination of action Phosane extratable hydrocarbon by GC-FID EDIS Science D Fibrode Water Solute Determination of action Phosane extratable hydrocarbon by GC-FID EDIS Science D Fibrode Water Solute Determination of ToC to combustion analyser. EDIS Science D Fibrode Water Solute Determination of ToC to combustion analyser. EDIS				Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of	
Gold AR Coynelle - Tree Description Entity Entity Entity Soil D Cycloheans Extractable Metter (CEM) Gravimetrally determined through extraction with cycloheans Extractable Metter (CEM) Extractable Mether (CEM)	Soil	ΔR	Cvanide - Complex		E015
Soil AR Copanies - total betermination of total caynade by distillation followed by colorinetry EDI Soil AR Deself Range Urganics (C10 - C4) Determination of hexane/actorics extractable hydrocarbons by CC-bits EDI Soil AR Electrical Conductivity Determination of hexane/actorics extractable hydrocarbons by CC-bits EDI Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement EDI Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement EDI Soil AR EPH TEMS (GC-C3, GC-C1, C1-C40) Bettermination of actorin/hexane extractable hydrocarbons by GC-BID EDI Soil AR EPH TEMS (GC-C3, GC-C1, C1-C40) Bettermination of actorin/hexane extractable hydrocarbons by GC-BID EDI Soil D C12-C4, GC-C3, C1-C1-C40) Bettermination of TCC by combustion analyzer. EDI Soil D C12-C4, GC-C3, C1-C1-C40) Bettermination of TCC by combustion analyzer. EDI Soil D C12-C4-C3, GC-C3, C1-C1-C40) Bettermination of TCC by combustion					
Soil D Cyclohexame Extractable Matter (CEM) Gravmenticitally determined through extraction with cyclohexame 601 Soil AR Electrical Conductivity Decide Rance Conducti					
Soil AR Electrical Conductivity Determination of electrical conductivity by addition of saturated calcium subplate followed by E022 Gail AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E033 Gail AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E034 Gail AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E034 Soil AR EPH Folder LD electrimination of actional/neare extractable hydrocarbons by GC-FID E044 Soil D Factor Conductivity Determination of TCC by combustion analyzer. E037 Soil D Factor Conductivity Determination of TCC by combustion analyzer. E037 Soil D FOC (Factor Organic Carbon COC Determination of TCC by combustion analyzer. E037 Soil D FOC (Factor Organic Carbon COC Determination analyzer. E037 Soil D Horeato Organic Carbon COC Determination of theoreato pub y outding with potasium dichromate followed by ICP-OES E032	Soil	D			E011
Soil AR Detectinal Conductivity Detectinal Co	Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soli D Elemental Subture Internation of elemental subture by colonet extraction followed by CC-MS ED00 Soli AR PPH Froduct ID Edemination of actors/heame extractable hydrocarbons by CC-FID ED04 Soli AR PPH Froduct ID Edemination of actors/heame extractable hydrocarbons by CC-FID for CB 0 C40. C6 to C8 by ED04 Soli D Feature Cathon Organic Cathon (FOC) Edemination of actors/heame extractable hydrocarbons by CC-FID for CB 0 C40. C6 to C8 by ED04 Soli D Fraction Organic Cathon (FOC) Edemination of TCO by conduction analyser. ED07 Soli D ToC (Total Organic Cathon (FOC) Edemination of Cb by conduction analyser. ED07 Soli D FOC (Fraction Organic Cathon) Determination of Actors organic Cathon by codising with potassium dichromate followed by ICP-OES ED05 Soli D Loss on lignition # 450c Determination of Avater solutile magnesium by extraction with water followed by ICP-OES ED02 Soli D Magnesium- Water Solutile Determination of nators organic Cathon by Colonal displation followed by ICP-OES ED03 Soli D Magnesium- Water Solutiba catho cather magnesium hy extraction with water foll	Soil	AR	Electrical Conductivity		E022
Soil AR EPH (C10 – C40) Determination of accome/hexane extratable hydrocarbons by CC-FID E004 Soil AR EPH TEXS (Ci-C8, C3-C10, C10-C12, Determination of accome/hexane extratable hydrocarbons by CC-FID for C8 to C40. C6 to C8 by E004 Soil AR EPH TEXS (Ci-C8, C3-C10, C10-C12, Determination of accome/hexane extratable hydrocarbons by CC-FID for C8 to C40. C6 to C8 by E004 Soil D Fluctide - Water Soluble Determination of T0C by combustion analyser. E027 Soil D TOC (Total Organic Carbon Determination of T0C by combustion analyser. E027 Soil D TOC (Total Organic Carbon Determination of T0C by combustion analyser. E027 Soil D FDC (Fraction Organic Carbon Determination of T0C by combustion analyser. E027 Soil D FDC (Fraction Organic Carbon Determination of Vater soluble magnetism. by cortacity with the sample being ignited in a muffle E019 Soil D Loss on Ignition @ 4500C Entimate E019 Soil D Magnetism Water Soluble Determination of nates to vacation full with water followed by ICP-OES E002 Soil D Magnetism Water Soluble Determination of nates to vacation with water Saluble determination	Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil AR EPH Product ID Determination of accomp/hexane extractable hydrocarbons by GC-FID E004 Soil D FBH TEXS (SC-GS, GS-GL, GC-L) C12, Determination of accomp/hexane extractable hydrocarbons by GC-FID for GB to C40. C6 to C8 by C12-C16, C11-C12, Determination of TOC by combustion analyser. E007 Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon Determination of Tocaro or organic carbon by oddising with potassium dichromate foilowed by (E002 E023 Soil D Magnesium: Wate Subile Determination of matios: potabiline appresium by extraction with water foilowed by (EP-OES) E002 Soil AR Mineral Oil (10 - C40) Determination of matios: potabiline appresium-by tip-POES E002 Soil AR Mineral Oil (10 - C40) Determination of matios: potabiline appresium by tip-POES E003 Soil	Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Sol AR EPH TEXAS (GC-G, GC-LD, C10-C12, Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40, C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D TOCC (Total Organic Carbon Obtermination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of TOC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbon Determination of organic carbon by oxidising with potassium dichromate followed by tration with inc III sublate E029 Soli D Loss on Ignition @ 4500. Determination of water soluble magnesium by extraction with water followed by ICP-OES E025 Soli D Magnesium - Water Soluble Determination of metals by aqua-regin digeston followed by ICP-OES E004 Soli AR Mineral Diff.(C1-Ca)D Determination of Intrate by carbon with water & analysed by ion chromatography E003 Soli AR Mineral Diff.(C1-Ca)D Determination of Intrate by carbon with potassium dichromate followed by GC-HS with PE E004 Soli AR PAH-respec	Soil	AR			
Soli AR C12-C16, C12, C12-C10, Peadspace GC-MS CEOM Soli D Floration (Traction Creation Control Provide by extraction with water & analysed by ion chromatography E009 Soli D Floration (Traction Creation Control TOC by combustion analyser. E027 Soli D TOC (Traction Creation Control TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of TOC by combustion analyser. E029 Soli D TOC (Traction Organic Carbon Traction of raction of raction of raction by oxidinely with potassium dichromate followed by E000 E010 Soli D Less on Lipition @ 4500 Petermination of Instance soluble management by cartaction with water followed by ICP-OES E022 Soli D Magnesium - Water Soluble management by cartaction with water followed by ICP-OES E002 Soli AR Mineral OII (C10 - C40) Petermination of Interane/Acction extraction with water followed by ICP-OES E003 Soli AR Mineral OII (C10 - C40) Petermination of Interane/Acction with water analysed to ion chronateoraphy. E003 Soli AR PAH - Speciated (EPA 16) Determination of Interane/Acction wit	Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil D C12(16, 16)-C1 (21-C1) easing Space SL-NS End of a Visa End Visa End of	Soil	ΔR			F004
Soil D Fraction Granic Carbon (FCC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxiding with potassium dichromate followed by E010 E029 Soil D Magnesium - Water Soluble Determination of fraction of organic carbon by oxiding with potassium dichromate followed by ICP-OES E029 Soil D Magnesium - Water Soluble Determination of hexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E000 Soil AR Mineral OII (C10 - C40) Determination of relaxe by aua-regia disection followed by ICP-OES E002 Soil AR Mineral OII (C10 - C40) Determination of ractice extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR PAH - Speciated (CF1) Determination of ractice extractable hydrocarbons by GC-FID fractionating with the followed by ICP-OES E002 Soil AR PAH - Speciated (CFA 16) Determinati			C12-C16, C16-C21, C21-C40)	headspace GC-MS	
Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of a annonium by discrete analyser. E023 Soil D Loss on Ignition @ 4500 E019 E019 Soil D Magnesium - Viets Soluble E019 E019 Soil D Magnesium - Viets Soluble E019 E019 E019 Soil D Magnesium - Viets Soluble Determination of meane/acotone extractable hydrocarbons by GC-FID fractionality with SPE E002 Soil AR Mineral Oil (C10 - C40) Determination of nixate by catchion with water followed by ICP-OES E003 Soil D Mineral Oil (C10 - C40) Determination of nixate by catchion with water followed by ICP-OES E003 Soil AR Mineral Oil (C10 - C40) Determination of nixate by catchion with water followed by ICP-OES E003 Soil AR PAH - Speciated (EPA Io) Determination of nixate by catchion with water followeed by ICP-OES			Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	
Soil D TOC (Total Organic Carbon) Determination of amonium by describe analyser. E027 Soil AR Exchangeable Ammonium Determination of amonium by describe analyser. E029 Soil D FROC (Fraction Organic Carbon) Determination of amonium by describe analyser. E029 Soil D Loss on Ignition @ 450c Determination of water soluble magnesium by extraction with water followed by ICP-OES E025 Soil D Magnesium - Water Soluble Determination of metals by acuar-regis digestion followed by ICP-OES E025 Soil AR Mineral OII (C10 - C40) Determination of metals by acuar-regis digestion followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Determination of mitate by acuar-regis digestion followed by ICP-OES E004 Soil AR Mosture Content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (21) Determination of mitate by acutaction with water followed by ICP-OES E003 Soil AR PAH - Speciated (EPA Li) E004 E004 Soil AR PAH - Speciated (EPA Li) E004 E004 <			Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	
Soil AR Exchangeable Ammonium Determination of rancoho by validing with potassium dichromate followed by tration with iron (II) subhate. E029 Soil D Loss on Ignition (@ 4500C) Etermination of rance aroon by oxidising with potassium dichromate followed by tration with iron (II) subhate. E019 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E023 Soil AR Mineral OII (C) - C40) Determination of metals by aquar-regia digestion followed by ICP-OES E002 Soil AR Mineral OII (C) - C40) Determination of hexaen/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge. E004 Soil AR Mineral OII (C) - C40) Determination of fracte by extraction with water & analysed by ion chromatography. E009 Soil D Nitrate - Water Soluble (21) Determination of PAI compounds by extraction with acetone and hexare followed by (GC-MS with the tors of surrorgate and internal standards E004 Soil AR PAH - Speciated (EPA 16) Determination of PAI by extraction with acetone and hexare followed by (GC-MS with the tors of surrorgate and internal standards E001 Soil AR PAE-Total Congeres Determination of PAI by extraction with acetone and hexare followed by (GC-MS E001					
Soli D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Soli D Loss on Ignition @ 450c Determination of the son ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soli D Magnesium - Water Soluble Determination of metals by aquar-regional digestion followed by UCP-OES E025 Soli AR Mineral OII (C10 - C40) Determination of metals by aquar-regional digestion followed by UCP-OES E003 Soli AR Mineral OII (C10 - C40) Determination of metals by aquar-regional digestion followed by UCP-OES E003 Soli D Nitrate - Water Soluble (21) Determination of threats by scharchino with water & analysed by ion chromatorarabiny E003 Soli D Organic Matter Determination of rAN compands by extraction with avetare followed by GC-MS with the toget of analysed by GC-MS with the toget of analysed by GC-MS with the toget of analysed by a chromatorarabiny E003 Soli AR PAH - Speciated (EPA 16) Betermination of rAN compands by extraction with avetare followed by GC-MS with the toget of analysed by ion chromatography E003 Soli AR Phenols - Total (monohytic) Determ					
Solt D Loss on Ignition @ 450c Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Solt D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E022 Solt AR Mineral Oil (C10 - C40) Determination of metane/Jacctone extractable hydrocarbons by CC-FID fractionating with SPE E004 Solt AR Mineral Oil (C10 - C40) Determination of mitrate by extraction with water & analysed by ion chromatography E003 Solt D Nitrate - Water Soluble (21) Determination of Park compands by extraction with water & analysed by ion chromatography E003 Solt D Organic Matter Determination of PAI compounds by extraction in acetone and hexane followed by GC-MS with the ion (11) subphate E005 Solt AR PAH - Speciated (PEA 16) Determination of PAI compounds by extraction with water mether E003 Solt AR Petroleum Ether Extract (PEB) Gravimetrically determined with acetone and hexane followed by GC-MS E009 Solt AR Phenoles - Total Determination of PAI compounds by extraction with acetone mether E001 Solt AR				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by	1
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES ED02 Soil D Metals Determination of metals by aquaregia digeston followed by ICP-OES ED03 Soil AR Mineral Oil (C10 - C40) Determination of metals by aquaregia digeston followed by ICP-OES ED03 Soil D Nitrate - Water Soluble (2:1) Determination of nutrate by extraction with weter & analysed by ion chromatography ED03 Soil D Organic Mattry ED03 ED03 Soil AR PAH - Speciated (EPA 16) Determination of organic mattry by oxiding with potassium dichromate followed by GC-MS with the geost ED05 Soil AR PCB - 7 Congeres Determination of PAE Compounds by extraction with acetone and hexare followed by GC-MS ED08 Soil AR PEtroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum ether ED01 Soil AR Phenols - Tod (monohydric) Determination of valuef alby extraction with uster followed by ICP-OES ED03 Soil AR Phenols - Tod (monohydric) Determination of valuef alby be vertraction with uster followed by ICP-	Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle	E019
Soil D Metals Determination of metals by aqua-regid digestion followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil D Nitrate - Water Soluble (2:1) Determination of ritrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Matter Determination of organic matter by oxidiing with potassium dichromate followed by BC-MS with the user of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAE tompounds by extraction in acetone and hexane followed by GC-MS E008 Soil AR PCB - 7 Congeners Determination of PAE towpounds extraction with acetone and hexane followed by GC-MS E003 Soil AR PCD - 7 Congeners Determination of pusp to the vartaction with acetone and hexane followed by GC-MS E004 Soil AR PHonobiate - Vatar (PEE) Determination of pusp to the vartaction with acetone and hexane followed by GC-MS E003 Soil AR Phenols - Total (monohydric) Determination of vatar soluble extraction with water & analysed by ion chromatography E003 S	Coil	D	Magnosium Water Soluble		E02E
Soil AR Mineral OII (C10 - C40) artifidge Determination of hexane/actione extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Moisture Content Moisture content; determination of nutrate by extraction with wate & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titration with from (11) subplate E009 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS E008 Soil AR PCB - 7 Congeners Ectorimation of PLB by extraction with acetone and hexane followed by GC-MS E008 Soil AR Petro-100 petromination of PLB by extraction with acetone and hexane followed by GC-MS E001 Soil AR Petro-100 petromination of phenols by distillation followed by colorimetry E001 Soil AR Phenols - Total (monohydric) Determination of subplate by extraction with acets analysed by ion chromatography E009 Soil D Subpate (as SO4) - Total Determination of subplate by extraction with acet analysed by ion chromatography E002 Soil D Sulphate (as SO4) - Total Determination of subplate by extract					
Soil AR Moisture Content Moisture content, determined gravinetrally. E003 Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography. E009 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction in acetone and hexane followed by GC-MS with the got surrogate and internal standards. E009 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS with the got surrogate and internal standards. E008 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS with the got surrogate and internal standards. E001 Soil AR Phenols - Total (monohydric) Determination of ph by addition of water followed by icconnetic: measurement. E007 Soil D Phosphate - Water Soluble (2:1) Determination of topshate by extraction with water followed by iCP-OES E013 Soil D Phosphate (as SO4) - Total (monohydric) Determination of sulphate by extraction with water followed by ICP-OES E013 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-O				Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE	
Soil D Nitrate - Water Soluble (2:1) Determination of intrate 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 ion (11) 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 PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PHetroleum Ether Extract (PEE) Gravimetrically determined through extraction with hearts analysed by ion chromatography E007 Soil AR Phenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetry E003 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 sulphate by extraction with water & analysed by ion chromatography E009 Soil AR Sulphate (as SO4) - Wat	Soil	۸D	Moisturo Contont		E003
SoilDOrganic Matter Ion (11) subpateDetermination of organic matter by oxidising with potassium dichromate followed by titration with ion (11) subpateE010SoilARPAH - Speciated (EPA 16) use of surroacte and internal standardsDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE005SoilARPCB - 7 Congeners Determination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum etherE001SoilARPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryE001SoilDPhosphate - Valer Soluble (2:1) Determination of subpate by extraction with naker 6 analysed by ion chromatographyE009SoilDSulphate (as SO4) - Valer Soluble (2:1) Determination of sulphate by extraction with naker followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphateDetermination of semi-volable sulphate by extraction with water followed by ICP-OESE024SoilARSulphateDetermination of semi-volable sulphate by extraction with water followed by ICP-OESE024SoilARThiocyanate (as SCN)Determination of semi-volable sulphate by extraction with audr-relia followed by ICP-OESE024SoilARThiocyanate (as SCN)Determination of fersi rulphate to sulphate					
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 Phenols - Total (monohydric) Determination of phosphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of sulphate by extraction with Water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with mater followed by ICP-OES E014 Soil AR Sulphate (as SO4) E009 E004 Soil AR Sulphate (as SO4) Determination of tail sulphur by extraction with mater followed by ICP-OES E014 Soil AR Tholocyanate (as SCN)<				Determination of organic matter by oxidising with potassium dichromate followed by titration with	
Soil AR PCB - 7 Congeners Determination of PCB by extraction with actone and hexane followed by GC-MS E008 Soil D Petroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum ether E001 Soil AR Phenols - Total (monohydric) Determination of pit by addition of water followed by electrometric measurement E007 Soil D Phosphate - Water Soluble (2:1) Determination of phosphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Vater 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 D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-OES E014 Soil AR Sulphate (as SO4) Determination of sulphate by extraction with water followed by ICP-OES E014 Soil AR Sulphate (as SCW) Determination of sulphate by extraction in acustic soda followed by ICP-OES E024 Soil	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005
SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARphenols - Total (monohydric)Determination of phe phadition followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed byE009SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE013SoilDToluene Extractable Matter (TEM)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (II) sulphateE017SoilDToluene Extractable Matter (TEM)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/	Soil	AR	PCB - 7 Congeners		E008
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (mondydric)Determination of phenos by distillation followed by colorimetryE001SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Vater Soluble (2:1)Determination of sulphate by extraction with number & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphateSulphur - TotalDetermination of semi-volatile organic compounds by extraction with mater followed by ICP-OESE024SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN) Determination of full sulphate by extraction with tolueneE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C24, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C1					
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 sulphate by extraction with 10% HCI 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 sulphate by extraction with water & analysed by ion chromatography E008 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E008 Soil AR Sulphate - Total Determination of sulphate by extraction with water & analysed by ion chromatography E014 Soil AR Sulphate - Total Determination of sulphate by extraction with water & analysed by ion chromatography E014 Soil AR Thiocyanate (as SCN) Determination of sulphate by extraction with awater & analysed by ion chromate followed by E017 Soil D Toluene Extractable Matter (TEM)					
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of subphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Total Determination of subphate by extraction with water regia followed by ICP-OESE024SoilDSulphate (as SO4) - Total Determination of total sulphur by extraction with aquar-regia followed by ICP-OESE024SoilARSVOCDetermination of thicyanate by extraction in caustic soda followed by acidification followed by addition of thicyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of funcyanate by extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C3, arc: C5-C7, C7-C8, C8-C10, C10-C12, C3-C3Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C3-C3E004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C3-C16-C21, C3-C3, C3-C44, C3-C3Determination of hexane/ac					
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water & analysed by ion chromatographyE003SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphide organic compounds by extraction in acetone and hexane followed byE004SoilARThiocyanate (as SO4)Determination of funcyanate by extraction in caustic soda followed by acidification followed byE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (11) sulphateE010SoilDTPH CWG (ali: C5 - C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C33, C3 + C4 & C3 + C3 + C3 + C4 & C3 + C3 + C4 & C3 + C3 + C4 & C3 +	Soil	D			E009
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE013SoilARChock - SolubConstant - SolubE004SoilARChock - SolubDetermination of sulphide by distillation followed by colorimetryE006SoilARChock - SolubDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-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-C34, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8,	Soil	D			E013
SoilARMRSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCOCOSDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferri- nitrate followed by colorimetryE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferri- nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TCO)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro	Soil	D			E009
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determination of organic matter by oxidising with potassium dichromate followed by titration with to n (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (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, 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-MSE004SoilARVPH (C6-C8 & C8-C10, C12-C16, C16-C21,	Soil				
SoilARSWCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, SoilDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) VPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MSE001					
SoilARSVOCGC-MSE000SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Total Organic Carbon (TOC)Determination of thiocyanate by extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-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 arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	D	Sulphur - Total		E024
SoilARThioCyanate (as SCN) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryED17SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	SVOC	GC-MS	E006
SoilDTotal Organic Carbon (TCC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C10-C12, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001			, , ,	addition of ferric nitrate followed by colorimetry	
SoilDTotal Organic Carbon (TOC) iron (II) sulphateED10SoilARTPH 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-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, betermination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) VOCsDetermination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
SoilARC10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE 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 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 aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hydrocarbons by headspace GC-MSE004SoilARVVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with	E010
Soil AR C10-C12, C12-C16, C16-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arrow critical 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	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE	E004
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			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)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS	
			VOCs	Determination of volatile organic compounds by headspace GC-MS	
D Dried			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

Page 7 of 7



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd Unit 1 Rose Lane Industrial Estate Rose Lane Lenham Heath Kent ME17 2JN t: 01622 850410

DETS Report No: 23-12816

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231011
Sample Receipt Date:	16/10/2023
Sample Scheduled Date:	16/10/2023
Report Issue Number:	2
Reporting Date:	13/11/2023

Authorised by:

Sil

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request. This report supersedes 23-12816, issue no.1. 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.





Soil Analysis Certificate				
DETS Report No: 23-12816	Date Sampled	09/10/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 2 TS		
Project / Job Ref: 1935	Additional Refs	E3		
Order No: 1935 231011	Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2023	DETS Sample No	680488		

Determinand	Unit	RL	Accreditation				
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected			
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion							

Subcontracted analysis (S)





Soil Analysis Certificate						
DETS Report No: 23-1281	eport No: 23-12816 Date Sampled		09/10/23			
Green Earth Management	Co Ltd	Time Sampled		None Supplied		
Site Reference: Blofield			TP / BH No	Plot 2 TS		
Project / Job Ref: 1935		ļ	Additional Refs	E3		
Order No: 1935 231011			Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2	023	D	ETS Sample No	680488		
Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg <	< 0.1	MCERTS	< 0.1		
Acenaphthylene	mg/kg <	< 0.1	MCERTS	< 0.1		
Acenaphthene	mg/kg <	< 0.1	MCERTS	< 0.1		
Fluorene	mg/kg 🗸	< 0.1	MCERTS	< 0.1		
Phenanthrene	mg/kg 🔸	< 0.1	MCERTS	0.19		
Anthracene	mg/kg 🗸	< 0.1	MCERTS	< 0.1		
Fluoranthene	mg/kg 🗸	< 0.1	MCERTS	0.51		
Pyrene	mg/kg 🔸	< 0.1	MCERTS	0.46		
Benzo(a)anthracene	mg/kg 🗸	< 0.1	MCERTS	0.30		
Chrysene	mg/kg 🔸	< 0.1	MCERTS	0.26		
Benzo(b)fluoranthene	mg/kg 🔸	< 0.1	MCERTS	0.43		
Benzo(k)fluoranthene	mg/kg 🔸	< 0.1	MCERTS	0.14		
Benzo(a)pyrene	mg/kg 🗸	< 0.1	MCERTS	0.41		
Indeno(1,2,3-cd)pyrene	mg/kg <	< 0.1	MCERTS	0.22		
Dibenz(a,h)anthracene	mg/kg <	< 0.1	MCERTS	< 0.1		_
Benzo(ghi)perylene	mg/kg <	< 0.1	MCERTS	0.21		
Total EPA-16 PAHs	mg/kg <	< 1.6	MCERTS	3.1		





Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-12816	
Green Earth Management Co Ltd	
Site Reference: Blofield	
Project / Job Ref: 1935	1
Order No: 1935 231011	1
Reporting Date: 13/11/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
680488	Plot 2 TS	E3	0.00 - 0.20	9	Brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test Insufficient Sample $^{\rm US}$ Unsuitable Sample $^{\rm US}$





Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-12816
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231011
Reporting Date: 13/11/2023

B On Born Mon Gel 0 Berner-Water Solidio Parameters of Life by handpass of Life by ha	Matrix	Analysed On	Determinand	Brief Method Description			
Gel AR ITEX Determination of URIX by headpace C-45 1001 Soil D Caterons Determination of unions in sub vacue croat decade in clowed by LCP eES 1002 Soil AR Chornes. Water Soluble (2.1.) Extermination of clowed by LCP eES 1002 Soil AR Chornes. Complex Determination of clowed by LCP eES 1003 Soil AR Controls. Complex Determination of clowed by clowed by colorimetry. 1013 Soil AR Controls. Complex Determination of clowed by colorimetry. 1013 Soil AR Controls. Complex Determination of clowed by colorimetry. 1013 Soil AR Electrical Conductry. 1013 Soil AR Electrical Conductry. Determination of electrical conductry. 1023 Soil AR Electrical Conductry. Determination of electrical conductry. 1023 Soil AR Electrical Conductry. Determination of electrical conductry. 940 Soil AR Electrical Conductry. Determination of electrical conductry. 920 Soil AR Electrical Conductry.	Soil		Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 bot water extract followed by ICP-OES			
Soil D Cators Determination of cators in soil by aque real depation followed by CRCSE (000) Soil AR Orronium - Housevelett Determination of heavaleer chromum in soil by particition in water the by addication, addition (001) Soil AR Orronium - Housevelett Determination of heavaleer chromum in soil by particition in water the by addication, addition of the addition for the control by particition in water the by addication, addition of the addition for the control by columnaty (001) Soil AR Conniels - Ensite Determination of the control by particition flowed by columnaty (001) Soil AR Conniels - Ensite Determination of the control by addition of water addition flowed by columnaty (001) Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water addition of budget by determination of addition flowed by CR-HD (002) Soil AR Electrical Conductivity (001) (002) Soil AR Electrical Conductivity (002) (002) Soil AR Electrical Conductivity (002) (002) Soil AR Electrical Conductivity addition of water colacies by addition of water colacies by CR-HD accolacies by CR-H					-		
Soil D Chloride - Water Soluble (2) Determination of chloride by extraction with water 8 analysed by ion chromatography E009 Soil AR Chromian - Hocavales Determination of bearvales of chromian in soil by extraction in water then by accilication, addition of 1016 E016 Soil AR Chromian - Hocavales Determination of the avales of chromian in soil by extraction with extra							
301 AR Chromutin 'neckwiden' 1,5 dipervice/based for dominatry		D			E009		
Soil AR Cynoide - Tree Determination of the cynoide by docimentry EDIS Soil D Cycbename Extractable Matter (CEM) Granitation of basenafe abuse extractable Matter (CEM) EDIS Soil AR Bestimation of basenafe abuse extractable Matter (CEM) EDIS Soil AR Bestimation of basenafe abuse extractable Matter (CEM) EDIS Soil AR Bestimation of extractable Matter (CEM) EDIS Soil AR Bestimation of extern abuse extractable Matter (CEM) EDIS Soil AR Extractal Conductivity Determination of extern abuse extractable Matter (CEM) EDIS Soil AR EPH TUSK (CEG), CFC (CID (CH) Determination of extern abuse extractable Matter (CEM) EDIS Soil AR EPH TUSK (CEG), CFC (CID (CH) Determination of extern abuse extractable Matter (CEM) EDIS Soil D Fraction Cranit (CEM) Entermination of ToC (C combustion analyser. EDIS Soil D Fraction Cranit (CEM) Entermination of ToC (C combustion analyser. EDIS Soil D Fraction Cranit (CEM) Entermination of ToC (C combustion analyser.	Soil	AR	Chromium - Hexavalent		E016		
Soil AR Cyclobase Experiments Coll Coll Cyclobase Experiments Coll Soil AR Deser Range Organics (C10 - C4) Determination of hearing-actence extractable hydrocorbons by CC-100 E004 Soil AR Electrical Conductivity Determination of hearing-actence extractable hydrocorbons by CC-100 E004 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by cletrometric measurement E003 Soil D Electrical Conductivity Determination of electrical conductivity by addition of water followed by CC-100 E004 Soil AR EPH TEWAS (CC-23, CB 1400 Determination of actenom/hearine extractable hydrocorbons by CC-100 E004 Soil AR EPH TEWAS (CC-23, CB 1400 Determination of actenom/hearine extractable hydrocorbons by CC-100 E004 Soil D C12-16, C16-21, CB 1400 Determination of TCC by combustion analyser. E007 Soil D Fraction Organic Chartin (CD) Determination of TCC by combustion analyser. E007 Soil D Fraction Organic Chartin (CD) Determination of TCC by combustion analyser.<	Soil	AR	Cyanide - Complex		E015		
Soil D Cyclobeane Extractable Matter (CEP) Gravmetricity determining through extraction with cyclobeane E011 Soil AR Biest Flag Organis (CE) - CA) Betermination of heardy-actors extractable Mydroxinos by GC-FID E004 Soil AR Biestrical Conductivity Desemination of electrical conductivity by addition of statured column subhate followed by CE-FID E004 Soil AR Biestrical Conductivity Desemination of electrical conductivity by addition of statured column subhate followed by CE-FID E004 Soil AR EPH COde (CE) Externation of actorn/hexane extractable Mydroxinos by GC-FID E004 Soil AR EPH Code (CE) Externation of actorn/hexane extractable Mydroxinos by GC-FID E004 Soil AR EPH Code (CC) Externation of actorn/hexane extractable Mydroxinos by GC-FID E004 Soil D Fraction Dyset (CE) Externation of actorn/hexane extractable Mydroxinos by GC-FID E004 Soil D Fraction Dyset (CE) Externation of TOC by combination analyser. E007 Soil D Fraction Dyset (CE) Externation of TOC by combination analyser. E002 S	Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015		
Soil AR Desel Range Organics (CID - C2A) Determination of hexaniquateme extractable hydrocarbons by CC-FID E004 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subured calcum subplate followed by electrometric measurement E022 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subured calcum subplate followed by electrometric measurement E023 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR EPH TC2AC (C-Q) betermination of action/hexane extractable hydrocarbons by CC-FID E004 Soil AR EPH TC2AC (C-Q) betermination of action/hexane extractable hydrocarbons by CC-FID E004 Soil D Firaction Organic Carbon (CQ) betermination of TCC to combustion analysee. E007 Soil D Fraction Organic Carbon (CQ) betermination of TCC to combustion analysee. E002 Soil D FoC (Fraction Organic Carbon to yacid carbon to yacid water analysee. E003 Soil D FoC (Fraction Organic Carbon to yacid carbon to yacid carbon to yacid manalysee. E003	Soil	AR			E015		
Sol AR Electrical Conductively electrometric measurement E022 Soli AR Electrical Conductively electrometric measurement E023 Soli D Electrical Conductively electrometric measurement E023 Soli AR Electrical Conductively electrometric measurement E023 Soli AR Electrical Conductively electrometric measurement E023 Soli AR Electrical Conductively electrometrical conductively by addition of water followed by electrometric measurement E023 Soli AR Electrical Conductively electrometrical electrometrical elect					-		
Soli AR Detectional Conductivity description End/or Production End/or Production <td>Soil</td> <td>AR</td> <td>Diesel Range Organics (C10 - C24)</td> <td></td> <td>E004</td>	Soil	AR	Diesel Range Organics (C10 - C24)		E004		
Soil D Elemental Solphur Distance and solphur by colvent extraction followed by GC-BD 6000 Soil AR EPH Froduct ID determination of actors/heame extractable hydrocarbons by GC-FD 6004 Soil AR EPH Froduct ID determination of actors/heame extractable hydrocarbons by GC-FD for CB to C40. C6 to C8 by 6004 Soil AR EPH FTSAC (FCS, CR: C0-1C) C1-C12 betermination of actors/heame extractable hydrocarbons by GC-FD for CB to C40. C6 to C8 by 6004 Soil D Fraction Organic Carbon (FOC) Determination of TCC by combustion analyser. 6027 Soil D Total Organic Carbon (FOC) Determination of TCC by combustion analyser. 6027 Soil D FOC (Fraction Organic Carbon) (FOC) Determination of Socie analyser. 6025 Soil D House hydropartic Carbon (FOC) Determination of Actor Analyser. 6025 Soil D House hydropartic Carbon (FOC) Determination of Actor Analyser. 6020 Soil D House hydropartic Carbon (FOC) Determination of Actor Analyser. 6025 Soil D Micrael OI (LOC) - Obtermination of Actor Analyser. 6003 Soil D Micrael OI (LOC) - Obtermination of Actor	Soil	AR	Electrical Conductivity		E022		
Soli AR EPH (C10 – C40) Determination of accome/hexane extratable hydrocarbons by GC-FID E004 Soli AR EPH FDAG (C10, C10, C10, C10, C10, C10, C10, C10,			,				
Soil AR EPH Product ID Determination of accome/hexane extratable hydrocarbons by GC-FID E004 Soil AR EPH TEXS (SC-G3, GS-C1, DC) C12, Determination of accome/hexane extratable hydrocarbons by GC-FID for GB to C40. C6 to C8 by C12-C16, C16-C21, C12-C30 E004 Soil D Fraction Organic Carbon (FGO) Determination of TOC by combustion analyser. E027 Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGO) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon Determination of arganic carbon by oxidising with potassium dichromate followed by (CP-OES E025 Soil D Magnetium: Water Soulbe Determination of waters soulbe magnetium by extraction with water followed by (CP-OES E025 Soil D Magnetium: Name Total and analyses by CF-DID actionating with SPE carbon soulb analyses by CF-DID actionating with SPE carbon text analyses by CF-DID actionating with SPE carb							
Soli AR EPH TEXAS (C6-C8, C8-C10, C10-C12, Determination of acetone/hexane extratable hydrocarbons by GC-FID for C8 to C40, C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of ToC by combustion analyser. E027 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of Graphic combustion analyser. E027 Soli D TOC (Fraction Organic Carbo) Determination of Graphic carbon by oxidining with potassium dichromate foilowed by tratas with inn (11) subplate E029 Soli D Loss on Ignition @ 4500. Determination of matels by acue-regis digestion followed by UCP-OES E025 Soli D Magnesium - Water Soluble Determination of matels by acue-regis digestion followed by UCP-OES E026 Soli D Magnesium - Water Soluble Determination of matels by acue-regis digestion followed by UCP-OES E029 Soli D Matter Soluble Determination of matels by acue-regis digestion followed by UCP-OES E029 Soli D Nitrate - Water Soluble Determination of matels by acatrecis dige							
Soli AR C12-C16, C12, C12-C10, Peadsace GC-MS Etonic Soli D Fluoride - Vister Soluble Etonics Etonics <td< td=""><td>Soil</td><td>AR</td><td></td><td></td><td>E004</td></td<>	Soil	AR			E004		
Sell D Cl2Cl6, (DeC/L D1-CJ1, Cl-Cl3) Badgade SL-MS Endoge Cl2Cl6, Cl2Cl6, Cl2Cl7, Cl2Cl6, Cl2Cl7,	Soil	AR			E004		
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. EE27 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. EE27 Soil AR Exchangeable Annonum Determination of TOC by combustion analyser. EE23 Soil D FOC (Fraction Organic Carbon) Determination of Taction of organic carbon by oxidiang with potassium dichromate followed by E010 Soil D Loss on Ignition (@ 450c) Determination of faction of organic carbon by oxidiang with potassium dichromate followed by ICP-OES E023 Soil D Magnesium - Water Soluble Determination of hexane/accence extractable hydrocarbons by GC-FID factionating with SPE E000 Soil AR Mineral OII (C10 - C40) Cartidge E003 Soil D Nitrate - Water Soluble C21) Determination of ractice performination of ractice performination of ractice performance actractable hydrocarbons by GC-FID factionating with SPE E004 Soil AR Mineral OII (C10 - C40) Cartidge E003 Soil D Organic Mater Misture content, determined gravimetrically E003 Soil							
Soil D Organic Matter (SON) Determination of TOC by combustion analyser. EE27 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E027 Soil D TOC (Teld Organic Carbon) Determination of ammonium by discrete analyser. E029 Soil D Loss on Ignition (@ 45000 Determination of asson ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Viers Soluble Determination of metals by aquar-regia digestion followed by ICP-OES E025 Soil AR Mineral Oil (C10 - COP Determination of neural evacutos: extend the value magnesium by extraction with water followed by ICP-OES E003 Soil AR Mineral Oil (C10 - COP Determination of neural evacutos: extend with water soluble magnesium by extraction with water followed by ICP-OES E003 Soil D Nitrate - Water Soluble (2:1) Determination of neural evacutos: with water soluble magnesium by extraction with water followed by ICP-OES E003 Soil AR PAH - Speciated (EPA 10) Determination of nitrate by extraction with water solubse watersoin with acton and hexane followed by GC-MS with the conto matersoin so in fignin analysed by ion chromatograp							
Soil D TOC (Total Organic Carbon) Determination of monitonin by determination analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of manonium by determination of moniton by determination of manonium by determination of manonium by determination of manonium by determination of manonium by determination of matching with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by (DP-OES E025 Soil D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by (DP-OES E002 Soil AR Mineral OII (C10 - C40) Petermination of network/acetone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil D Nitrate - Water Soluble (21) Determination of APA compounds by extraction with water & analysed by ion chromaterolowed by thraton with to an (11) subplate E003 Soil D Organic Matter Organic Matter Content; determined gravimetrical of Vac content determined gravimetrical with potassium dichromate followed by GC-MS with the total formolytic petermination of Mater followed by extraction with water & analysed by ion chromaterolytic extraction with water followed by GC-MS with the total formolytic petermination of Mater followed by extraction with water followed by GC-MS with the total formolytic peterminatin of diverse							
Soil AR Exchangeable Ammonium Determination of ammonium by discrete analyser. ED29 Soil D FOC (Fraction Organic Carbon, Dietermination of aristicon of organic carbon by oxidising with potassium dichromate followed by IDP-OES ED10 Soil D Magnesium - Water Soluble Etermination of water soluble manesium by extraction with water followed by IDP-OES ED02 Soil AR Mineral Oil (CI) - C40) Metals be determination of water soluble manesium by extraction with water followed by IDP-OES ED02 Soil AR Mineral Oil (CI) - C40) Etermination of metals by aquarregia digestion followed by IDP-OES ED03 Soil AR Mineral Oil (CI) - C40) Etermination of metals by aquarregia digestion followed by IDP-OES ED04 Soil AR Mineral Oil (CI) - C40) Etermination of finate by extraction with water followed by tDP-OES ED04 Soil D Nitrate - Water Soluble (CI) Determination of ribus provincerizally ED04 Soil AR PAH - Speciated (EPA 16) Etermination of PAH compounds by extraction with water followed by CG-MS ED05 Soil AR PRE-To congress Determination of PAH compounds by extraction with actore and hexane followe					-		
Soll D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Soll D Loss on Ignition @ 450cc Determination of the son ignition in soll by gravimetrically with the sample being ignited in a muffle E019 Soll D Magnesium - Water Soluble Determination of metals by aguar-regia digestion followed by (2P-OES) E002 Soll AR Mineral OII (C10- C40) Determination of metals by aguar-regia digestion followed by (2P-OES) E003 Soll AR Mineral OII (C10- C40) Determination of netable by extraction with water followed by UT-OES E003 Soll AR Moisture content; determined gravimetrically E003 Soll D Organic Matter Organic Matter Determination of netable by extraction in acetone and hexane followed by GC-MS with the E005 Soll AR PAH - Speciated (EPA 16) Determination of netable y addition of water followed by GC-MS with the E001 Soll AR PEG - 7 Congereme Vectors of auronat a antipatel by extraction with water and hexane followed by GC-MS with the E001 Soll D Petrolum Ether Extract (PEE <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>							
Soil D Loss on Ignition @ 450c Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Moisture Content, determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of nexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR PAH - Speciated (PPA 16) E003 Soil AR PAH - Speciated (PPA 16) Determination of norganic matter by extraction with water & analysed by ion chromatography E005 Soil AR PAH - Speciated (PPA 16) Determination of PAH compounds by extraction with actained the second and thermal standards E005 Soil AR Phenols - TCangeners Determination of phenols by distilistic followed by ice-MS E004 Soil AR Phenols - TCangeners Determination of phenols by distilistin followed by ice-MS E004				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by			
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of metals by aux-regia digeston followed by ICP-OES E003 Soil AR Moisture Content Moisture Content, determination of metals by aux-regia digeston followed by ICP-OES E003 Soil AR Moisture Content, determination of mate by extraction with weter 8 analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by the thromate followed by the thromate followed by the thromate followed by CC-MS with the followed by CC-MS with the followed by CC-MS with the set of surrogate and internal standards E003 Soil AR PAH - Speciated (PEA 16) Determination of PAH compounds by extraction with petroleum ether E001 Soil AR PHenols - To congeners Determination of phenols by distillation followed by ion chromatography E003 Soil AR Phenols - Tode (monohydric) Determination of vater followed by colorimetry E001 Soil AR Phenols - Tode (monohydric) Determination of subret soluble exity oreanalydined by ion chromatography <td>Soil</td> <td>D</td> <td>Loss on Ignition @ 450oC</td> <td>Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle</td> <td>E019</td>	Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle	E019		
Soil D Metals Determination of metals by aqua-regid digestion followed by CP-OES E002 Soil AR Mineral Oil (Cl0 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-HD fractionating with SPE cartifage E003 Soil AR Moisture Content, Moisture content, determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of rurate by extraction with water & analysed by ion chromatography E009 Soil AR PAH - Speciated (EPA 16) Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards. E003 Soil AR PAH - Speciated (EPA 16) Determination of PAE by extraction with acetone and hexane followed by GC-MS E008 Soil AR PCI0=17 Congeners Determination of water soluble (2:1) Determination of pusp tate by extraction with netwater & analysed by ion chromatography E001 Soil AR Phenols - Total (monbydric) Determination of pusp tate by extraction with netwater & analysed by ion chromatography E003 Soil D Phrephate - Water Soluble (2:1) Determination of rosphate by extraction with netwater & analysed by ion chromatography E003 Soil D </td <td>Soil</td> <td>D</td> <td>Magnesium - Water Soluble</td> <td></td> <td>E025</td>	Soil	D	Magnesium - Water Soluble		E025		
Soil AR Mineral OII (C10 - C40) articidag Determination of hexane/actione extractable hydrocarbons by GC-FID fractionating with SPE articidag E003 Soil AR Moisture Content							
Soil AR Moisture Content, Moisture content, determined gravinetically. E003 Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography. E009 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction in acetone and hexane followed by GC-MS with the get of surrogate and internal standards. E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS with the get of surrogate and internal standards. E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS (E008 E008 Soil AR Phenols - Total (monohydric) Determination of PAB by addition of water followed by iconvinetir measurement. E001 Soil D Phosphate (as SO4) - Total (monohydric) Determination of total subphate by extraction with water 8 analysed by ion chromatography E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of total subphate by extraction with water followed by ICP-OES E013 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-				Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE			
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 GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PRE0-F Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR Phenols - Total (monohydric) Determination of PAH compounds by extraction with acet 8 analysed by ion chromatography E009 Soil D Phenols - Total (monohydric) Determination of subplate by extraction with water 8 analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water 8 analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water 8 analysed by ion chromatography E009 Soil AR	Soil	AR	Moisture Content		F003		
SoilDOrganic Matter Ion (11) sulphate ion (12) sulphate ion (12) sulphate ion (12) sulphateExternination of organic matter by oxidising with potassium dichomate followed by tGr-MS with the ie of surpader and internal standardsExternination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the ie of surpader and internal standardsExternination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the ie of surpader and internal standardsExternination of PAH compounds by extraction with acetone and hexane followed by GC-MSEtonsSoilARPheroleum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by ICP-OESEtonsSoilARPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryEtonsSoilDPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryEtonsSoilDSulphate (as SO4) - Vater Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyEtonsSoilDSulphate (as SO4) - Water Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyEtonsSoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyEtonsSoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyEtonsSoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyEtons							
SoilARPAH - Speciated (EPA 16)Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standardsE005SoilARPCB - 7 CongenersDetermination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of PLB by extraction with pub electrometric measurementE007SoilDSulphate (as SO4) - Total Determination of phosphate by extraction with Nwater & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with Nwater & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with Nwater & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SOK)Sulphate (as SOK)E004E017SoilDSulphate (as SOK)Certermination of trait sulphur by extraction with acua-regia followed by acidification followed byE017 <td></td> <td>D</td> <td></td> <td>Determination of organic matter by oxidising with potassium dichromate followed by titration with</td> <td></td>		D		Determination of organic matter by oxidising with potassium dichromate followed by titration with			
SoilARPCB - 7 CongenersDetermination of PCB by extraction with actone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of pit by addition of water followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1)Determination of posphate by extraction with water & analysed by ion chromatographyE003SoilDSulphate (as SO4) - TotalDetermination of sulphate by extraction with water & analysed by ion chromatographyE003SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SCN)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of organic compounds by extraction in acestor and hexane followed byE007 <td< td=""><td>Soil</td><td>AR</td><td>PAH - Speciated (EPA 16)</td><td>Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the</td><td>E005</td></td<>	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005		
SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE021SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilARSulphate (as SO4)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARChrocyanate (as SCH)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetric determined through extraction with tolueneE011SoilDToluene Extractable Matter (TEM)Gravimetric determined through extractable	Soil	AR	PCB - 7 Congeners		E008		
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of total sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE018SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with avater followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of total sulphare by extraction with avater followed by ICP-OESE013SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetics soda followed by ICP-OESE024SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPEE014<	Soil	D			E011		
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of subphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of subphate by extraction with aquar-engia followed by ICP-OESE014SoilDSulphate (as SO4) - Votate Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE009SoilARSVOCDetermination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) CI0-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-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-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C3, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C44. C5 to C8 by headspa	Soil	AR	pH				
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCl followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - TotalDetermination of sulphate by extraction with aqua-regia followed by ICP-OESE024SoilDSulphate (as SO4)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of organic carbon unclosed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, c12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) C12-C16, C16-C21, C35, C35-C44, cartridge for C8 to C44. C5 to C8 by hea	Soil	AR	Phenols - Total (monohydric)				
SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble)Determination of total sulphur by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (11) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8							
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE018SoilARSulphur Determination of sulphide by distillation followed by colorimetryE018SoilARSulphur - TotalDetermination of sulphide by extraction with aqua-reqia followed by ICP-OESE024SoilARCharacter SourceDetermination of sulphide by extraction with aqua-reqia followed by ICP-OESE026SoilARThiocyanate (as SCN)Determination of thicxyanate by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, c12-C16, C			Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES			
SoilARImage: AREndition of sulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARComparity of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal organic Carbon (TCO)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE011SoilDTotal Organic Carbon (TCO)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C10-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, <b< td=""><td></td><td></td><td></td><td colspan="2"></td></b<>							
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCCMSDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determination of organic matter by oxidising with potassium dichromate followed by titration with to III sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, c12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, carc C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, c12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARAROPH LQM-C6-C8 & C8-C10 C19-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE001SoilAROPH LQM-C6-C8 & C8-C10 C19-C12, C12-C16, C16-C21, C21-C35, C35-C44, c12-C16, C16-C21, C21-C35, C35-C44,Determination of hydrocarb							
SoilARControl Control Contro							
SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-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 artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-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 artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, c12-C16, C16-C21, C21-C35, C35-C44,Determination of hoxane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC				Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by			
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	-			Determination of thiocyanate by extraction in caustic soda followed by acidification followed by			
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, petermination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001							
SoilDTotal Organic Carbon (TOC) iron (II) sulphateTotal Organic Carbon (TOC) iron (II) sulphateEDIOSoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-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 C44. C5 to C8 by headspace GC-MSE004SoilARTPH 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, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	5011	U	I Oluene Extractable Matter (TEM)		EUII		
SoilARC10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-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 arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARC00CSDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	D	Total Organic Carbon (TOC)		E010		
SoilARC10-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-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	4, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE 2, cartridge for C8 to C35. C5 to C8 by headspace GC-MS			
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001	Soil	AR	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)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS			
		AR			E001		

D Dried AR As Received

Page 5 of 5



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-13672

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231102
Sample Receipt Date:	06/11/2023
Sample Scheduled Date:	06/11/2023
Report Issue Number:	1
Reporting Date:	10/11/2023

Authorised by:

S.CZ

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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.





Soil Analysis Certificate					
DETS Report No: 23-13672	Date Sampled	02/11/23	02/11/23	02/11/23	
Green Earth Management Co Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Blofield	TP / BH No	Plot 2 TS	Plot 2 TS	Plot 2 TS	
Project / Job Ref: 1935	Additional Refs	E1	E2	E3	
Order No: 1935 231102	Depth (m)	0.00 - 0.20	0.00 - 0.20	0.00 - 0.20	
Reporting Date: 10/11/2023	DETS Sample No	683975	683976	683977	

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 ass	isted-dried at	t less than 30°C. The	Method Description page	ge describes if the test	is performed on the d	ried or as-received por	rtion

Subcontracted analysis (S)



Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-13672
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231102
Reporting Date: 10/11/2023

Sale D Born : Ward Soluble Determination of Ward solub Into water soluble hours in all by 21 hold water and at Gives ID VI-OES. CO12 Sale D Cattors Determination of Tarts by handpace CA-OS Exclusion	Matrix	Analysed	Determinand	Brief Method Description	Method		
Gui AR ITEX Determination of GITEX by backgapes GC-MS E001 Soil D Callonds Hearmation of callonia usib ysame and degution followed by CIP-OES E002 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Conniets - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Controls - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Controls - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Electrical Conduction Determination of electrical conduction by addition of atmated calcium subhate followed by Colonnety E023 Soil AR Electrical Conduction Determination of electrical conduction by addition of atmated calcium subhate followed by Colonnety E003 Soil AR Electrical Conduction by Electrical conduction by addition of atmated calcium subhate followed by Colonnety E003 Soil AR Electrical Conduction by Electrical co	Soil	On	Boron - Wator Solubla	Determination of water coluble baren in cell by 2:1 bet water extract followed by ICD OES	No		
Soil D Cettors Distantaneous of cattors in soil to squar-nega dispetitor followed by (20-06) E000 Soil AR Ortomium - Hoxaveler, Destimation of hearwaler chromum in soil by searaction in water they additation, addition of end of the end of th					-		
501 D Oblidie - Wale Soluble (2): Determination of choirable petratacion with wate 8 analysed by ion chromatography 500 601 AR Oromium - Housevaler, Chromium is obly extraction in water then by additication, Addition of 10, 10 601 601 AR Oromium - Housevaler, Chromite in sol by extraction with vectormetry. 601 601 AR Orodination - Trad Determination of the analysis of the advised chromites by additional followed by colormetry. 601 601 AR Orderate - Trad Determination of the advised chromites by GCHDB analysis. 601 601 AR Externation of externation with colorbane. 6011 601 AR Externation of externation with colorbane. 6023 601 AR Externation of externation of externation with colorbane. 6023 603 AR Externation of externation of externation with water isolarow by GCHD 604 603 AR Externation of externation of externation with water isolarow by GCHD 604 604 AR Externation of externation of externation with water isolarow by GCHD 604 603 AR Externation of externation of externation of externation with water isolarow by GC							
Soli AR Chromum - Hexavelet Determination of hexavelet dremmin ms oil by scheduler in wolter then by sciellington, addition of soli AR Constant Complex Determination of complex squarks by disiliation followed by colorinetry EDits Soli AR Constant Complex Determination of complex squarks by disiliation followed by colorinetry EDits Soli AR Constant Complex Spletization followed by colorinetry EDits Soli AR Dised Range Organics (EII - QA) EDits							
Sail AR Openation Openation<				Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of			
Soil AR Cyclehearne Extractable Matter (CEH) Grownin fraid y definition followed by colorinnetry. EDIS Soil D Cyclehearne Extractable Matter (CEH) Grownin fraid y determined through extraction with cyclehearne. EDIS Soil AR Bestimated cyanels. CIT-CAI) Intermination of theore/actocore sortcable Mydocalons by CoFUID EDIS Soil AR Bestimated Conductivity Detestimated conductivity by addition of saturated columos by CoFUID EDIS Soil AR Bestimated Conductivity Detestimated conductivity by addition of vaster followed by electrometric measurement EDIS Soil AR Electrical Conductivity Detestimation of electrical conductivity by addition of vaster followed by CoFUE EDIS Soil AR Elevrent Subter Distometrical conductivity by addition of vaster followed by CoFUE EDIS Soil AR EHT TEXAS (CG, CG, CG ICI) CII-CH Distometrical conductivity by addition of vaster followed by CoFUE CoFUE EDIS Soil D Fraction Organic Carbon (FCC) EDIS EDIS Soil D Fraction Organic Carbon (FCC) EDIS EDIS Soil D Fraction Organic Carbon (FCC) E	Soil	ΔR	Cvanide - Complex		E015		
Sail AR Cyclobiases Extractable Mater (CB) Gravitisticity distribution followed by coorinnerly. E011 Sail AR Dissel Range Organics (CID - C2A) Determination of hexane/sectione extractable Mater (Columna) advances on the cyclobiases of suburster Calcum subphate followed by E022 Sail AR Electrical Conductivity Determination of electrical conductivity by addition of suburster Calcum subphate followed by E023 Sail D Electrical Conductivity Determination of electrical conductivity by addition of water followed by GC-MS E003 Sail D Electrical Conductivity Determination of electrical conductivity by addition of water followed by GC-MS E003 Sail AR EPH TEXAS (CF-G, C3-C1). C1-Distribution of accomphesione extractable hydrocarbons by GC-HD E004 Sail D EPH TEXAS (CF-G, C3-C1). C1-Distribution of accomphesione extractable hydrocarbons by GC-HD E004 Sail D Fraction Organic Carbon (C90 Determination of TCC by combusion analyser. E007 Sail D Fraction Organic Carbon (C90 Determination of TCC by combusion analyser. E002 Sail D Fraction Organic Carbon (C900 Determination of TCC by combus							
Soil D Cockbearse Extractable Nater (CEN) Gravimetrically determined through extraction with cycloheane							
Soil AR Desel Range Organics (C10 - C20) Determination of hexane/actore extractable hydrocarbors by CC-FID ED00 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subtracted calcium subplete followed by electrometric E022 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR EPH TED4K C3C B-C10, C1-C40) Determination of actore/measure extractable hydrocarbors by CG-FID E004 Soil AR EPH TED4K C3C B-C10, C1-C40) Determination of actore/measure extractable hydrocarbors by CG-FID E004 Soil D Firation Conductivity Endotion of actore/measure extractable hydrocarbors by CG-FID E004 Soil D Firation Conductivity Endotion of actore/measure extractable hydrocarbors by CG-FID E004 Soil D Firation Conductivity Endotion of TCC by combastion analyser. E002 Soil D Firation Conductity Endot Conductivity Endotion conductivity Endotion analyser.<			Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane			
Sail AR Electrical Conductivity Description Electrical Conductivi	Soil	AR			E004		
Sol D Elemental Subtra Determination of elemental subtra Solvest extraction followed by CC-MS ED30 Sol AR EPH Fractor ED ED30 ED34 ED35 ED34	Soil	AR	Electrical Conductivity		E022		
Soil AR EPH (Cio - Ca0) Determination of actors/hexane extratable hydrocarbons by GC-FID E004 Soil AR EPH TEXS (GC-G, GC-GL) E004 E004 Soil AR EPH TEXS (GC-G, GC-GL) E004 E004 Soil D Fluctude - Water Soluble Determination of acetors/hexane extratable hydrocarbons by GC-FID for CB to C40. C5 to CB by E004 Soil D Fluctude - Water Soluble Determination of TOC by combustion analyser. E027 Soil D TOC (Tradi Organic Carbon) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Annonlum Determination of TOC by combustion analyser. E027 Soil D FOC (Fracin Organic Carbon) Determination of tocs on publicity analyser. E027 Soil D FOC (Fracin Organic Carbon) Determination of tocs on publicity analyser. E023 Soil D Loss on Ignition (P 450C Charbon Determination of tocs on gancination analyser. E023 Soil D Magnesium - Water Soluble Determination of nearea/scatce exarbace. E002 Soil D Magnesium - Water Soluble Determination of netacer hydrocarbon fiby distration followed by ICP-OES	Soil	AR	Electrical Conductivity				
Soil AR EPH Product ID Determination of acctors/hexane extractable hydrocarbons by GC-FID E004 Soil D FPH TEXS (SC-G3, GS-ID, (C) C12), Determination of acctors/hexane extractable hydrocarbons by GC-FID E004 Soil D Fraction Organic Carbon (FGD) Determination of TOC by combustion analyser. E007 Soil D Fraction Organic Carbon (FGD) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGD) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGD) Determination of Totacin or organic carbon by oxidising with potassium dichromate followed by (EPC-FS) E027 Soil D Loss on Ignition (# 94500C Determination of maters shall be pare-impaid digestion followed by ICP-CFS E002 Soil D Meansel by Carbon on the tarbon of a soil by Carbon on the tarbon on tarbon on the tarbon on tarbon on the tarbon on the tarbon on tarbon on the tarbon on the tarbon on tarbon on the tarbon on tarbon	Soil	D			E020		
Sol AR EPH TEXAS (C6-C8, C8-C10, C10-C12, Determination of acetom/phexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of ToC by combustion analyser. E007 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of ToC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbo) Determination of Gragnic carbon by oxidising with potassium dichromate followed by E029 Soli D Loss on Ignition @ 4500. Determination of action Gragnic carbon by oxidising with potassium dichromate followed by E029 Soli D Magnesium - Water Soluble Determination of nectals by acua-regis digestion followed by UC-DES E002 Soli AR Mineral Oil (1.01 - c40) Determination of action carbons by dick-FID for CHD fractionating with SPE E004 Soli D Nittate Soluble (2) Determination of action carbon by dick on the dick on th	Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004		
Soli AR C12-C16, C12, C12-C10, Paddsace GC-MS E000 Soli D Floxion Organic Carbon (FOC) Determination of TOC by combustion analyser. E007 Soli D Organic Carbon (FOC) Determination of TOC by combustion analyser. E007 Soli D Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Annonium (Determination of TOC by combustion analyser. E029 Soli D FOC (Fraction Organic Carbon) Determination of raction of os on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soli D Magnesium - Water Soluble Determination of metals by acutarcias with water followed by ICP-OES E002 Soli D Magnesium - Water Soluble Determination of Interace relatable hydrocarbons by GC-IDI fractionating with SPE E004 Soli AR Mineral OII (C10 - O40) Petermination of Interace Partically in Analysed by ion Annatography E003 Soli AR Mineral OII (C10 - C40) Petermination of Interace Partically in Annatography E003 Soli AR Mineral OII (C10 - C40) Petermination of Interace Partically interace Partically interace Pa	Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004		
Soil D Cl2Cl6, L02/L02/L02/L02/L02/L02/L02/L02/L02/L02/	Soil	۸D	EPH TEXAS (C6-C8, C8-C10, C10-C12,	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by	E004		
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Annonuum Determination of ToC by combustion analyser. E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxiding with potassium dichromate followed by E010 Soil D Loss on Ignition @ 4500 Determination of fraction of vaster soluble magnesium by extraction with water followed by ICP-OES E002 Soil D Magnesium - Water Soluble Determination of hexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Mineral Oil (C10 - C40) Artifage E003 Soil AR Moisture Content Moisture content, determined gravimetrically E003 Soil D Organic Mater Determination of PAI computed by extraction in water followed by CC-MS with the followed by CC-MS with							
Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. [E027] Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. [E027] Soil D FOC (Fraction Organic Carbon) Determination of a monium by discrete analyser. [E027] Soil D FOC (Fraction Organic Carbon) Determination of a monium by discrete analyser. [E029] Soil D Loss on Ignition (@ 4500) [E019] [E019] [E019] Soil D Magnesium - Viser Soluble Determination of metals by aquaregia digestion followed by ICP-OES [E002 Soil AR Mineral Oil (C10 - C40) Determination of metale by aquaregia digestion followed by ICP-OES [E003] Soil AR Mineral Oil (C10 - C40) Cartridge [E004] [E003] Soil D Mineral Oil (C10 - C40) Cartridge [E004] [E010] [E011] [E011] [E011] [E011] [E011] [E011]							
Soil D TOC (Total Organic Carbon) Determination of mominum by discrete analyser. F027 Soil AR Exchangeable Ammonium Determination of amonium by discrete analyser. F029 Soil D FOC (Fraction Organic Carbon) Determination of maritor of organic carbon by oxidising with potassium dichromate followed by EP-0ES E019 Soil D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by ICP-0ES E025 Soil AR Mineral OII (C10 - C40) Petermination of mater by by extraction with water followed by ICP-0ES E002 Soil AR Mineral OII (C10 - C40) Petermination of mater by extraction with water followed by ICP-0ES E002 Soil D Nitrate - Water Soluble (21) Determination of mater by extraction with water followed by ICP-0ES E003 Soil D Organic Matter Organic Matter Petermination of mater by exidenic with water followed by ICP-0ES E003 Soil AR PAH - Speciated (EPA 16) Petermination of mater by exidenic mater followed by ICP-0ES E003 Soil AR PEE - 7 Congeme Determination of Mater by exidenin in a coll sup							
Soil AR Exchangeable Ammonium Determination of rancino of position of position carbon by oxidising with potassium dichromate followed by E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of foss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral OII (CIO - C40) Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral OII (CIO - C40) Determination of meane/acatone extractable hydrocarbons by CG-FID fractionating with SPE E004 Soil AR Mineral OII (CIO - C40) Determination of fraction with water & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (21) Determination of TAB by extraction with actone and hexane followed by GC-MS E003 Soil AR PAH - Speciated (EPA 16) Determination of TAB by extraction with actone and hexane followed by GC-MS E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with actaben and hexane followed by ICP-OES E					-		
Solit D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Solit D Loss on Ignition @ 450x Determination of matics with incluin Sulphate Determination of matics with incluin Sulphate E019 Solit D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by UCP-OES E002 Solit AR Mineral OII (C10-C40) Determination of maters by extraction with water followed by UCP-OES E003 Solit D Nitrate - Water Soluble (21) Determination of mater by extraction with water followed by UCP-OES E003 Solit D Nitrate - Water Soluble (21) Determination of mater by extraction with water f analyzed by ion chromatography E003 Solit AR PAH - Speciated (EPA 16) Betrimination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the E005 E004 Solit AR PCB - 7 Congerne Auter (PEE For Coll by estimation of PAH compounds by extraction with water followed by GC-MS with the E005 E004 Solit AR PDE - 7 Congerne Auter (PEE For Coll by estimation of Mater followed by inchromatography E001							
Soil D Loss on Ignition Q 4500c Etermination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Cetermination of water soluble magnesium by extraction with water followed by ICP-OES E022 Soil AR Mineral Oil (C10 - C40) E004 E004 Soil AR Mineral Oil (C10 - C40) Catridge E003 Soil AR Mineral Oil (C10 - C40) Catridge E004 Soil D Nitrate - Water Soluble (C11) Determination of nitrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Mattr Entermination of PAI compounds by extraction in actione and hexane followed by GC-MS with the E005 Soil AR PAH - Speciated (EPA 16) E014 compounds by extraction with actione and hexane followed by GC-MS E006 Soil AR Pehroles - Todal (monobydric) E024 betaction with action and hexane followed by GC-MS E001 Soil AR Phenols - Total (monobydric) Edemination of heads by distiliation followed by colorinetry E021 Soil AR Phenols - Total (monob				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by	1		
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E025 Soil D Magnesium - Water Soluble Determination of metals by aqua-regia diguestion followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/actome extractable hydrocarbons by GC-RD fractionating with SPE cartridge E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titraton with con (III sulphate E003 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with water & analysed by ion chromatography E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with petroleum ether E006 Soil AR PAE-10 Compense Determination of PAE to moyane divisition with ager & analysed by ion chromatography E007 Soil AR Phenols - Total (monohydic) Determination of water followed by clocimetry E001 Soil AR Phenols - Total (monohydic) Determination of water followed by clocimetry E001 Soil AR Phenols - Total (mon			,				
Soil D Metals Determination of metals by aqua-regia digastion followed by ICP-OES E002 Soil AR Mineral Oil (Cl0 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-HD fractionating with SPE E004 Soil AR Moisture Content Moisture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of furtate by extraction with water & analysed by ion chromatography E009 Soil AR PAH - Speciated (EPA 16) Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH by extraction with acetone and hexane followed by GC-MS E008 Soil AR PAtroleum Ether Extract (PEE) Determination of soganic charge by extraction with water & analysed by ion chromatography E001 Soil AR Phenols - Total (monhydirc): Determination of buody by clochometry E001 Soil AR							
Soil AR Mineral OII (C10 - C40) cartidge Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartidge E004 Soil AR Moisture Content, Moisture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of ruganic matter by oxidising with potassium dichromate followed by thration with tron (11) subhate E009 Soil AR PAH - Speciated (EPA 16) Use of surrogate and internal standards. E007 Soil AR PCB-7 Congenes Edetimination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards. E008 Soil AR PCB-7 Congenes Edetimination of PCB by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards. E008 Soil AR Phenols - Total (monohydric) E001 Soil AR Phenols - Total (monohydric) E001 Soil AR Phenols - Total (monohydric) Peterleium into of bota suphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of suphophate by extraction with water & analysed by ion chromatography							
Soli AR Imineration (C10-C40) artridge artridge ED04 Soli D Nitrate - Water Soluble (2:1) betermination of nurate by extraction with water & analysed by ion chromatoaraphy ED03 Soli D Organic Matter ron (11) subplate Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the betermination of PAI compounds by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR Phenoles - Total (monohydric) Determination of Phosphate by to colorimetry ED01 Soli AR Phenoles - Total (monohydric) Determination of botal subplate by extraction with water & analysed by ion chromatography ED03 Soli D Sulphate (as SO4) - Water Soluble (21) Determination of subplate by extraction with water & analysed by ion chromatography ED03 Soli D Sulphate (as SO4) - Water Soluble (21) Deter	Soil	D	Metals		E002		
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 teor E010 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with petroleum ether E011 Soil AR Phenols - Total (monohydric) Determination of PAB by addition of water followed by clocimetry E005 Soil AR Phenols - Total (monohydric) Determination of phenols by distillation followed by clocimetry E001 Soil D Phenols - Total (monohydric) Determination of total subplate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water & analysed by ion chromatography E009			, ,	cartridge			
SoilDOrganic Matther Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (III) sulphate ion (III) sulphate ion (III) sulphateDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE010SoilARPAH - Speciated (EPA 16) use of surroacte and internal standardsDetermination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE000SoilDPetroleum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by electrometric measurementE001SoilARPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryE002SoilDPhosphate - Vater Soluble (21) Determination of total sulphate by extraction with water 8 analysed by ion chromatographyE009SoilDSulphate (as SO4) - Vater Soluble (21) Determination of soulphate by extraction with water followed by ICP-OESE013SoilARSulphide Determination of semi-voluble sulphate by extraction with water followed by ICP-OESE024SoilARSulphide Sulphur Total Determination of ferric nitrate followed by colorimetryE019SoilARThiocyanate (as SCN) Co-MSDetermination of organic campounds by extraction with tolueneE011SoilARThiocyanate (as SCN) Co-MSDetermination of organic campounds by extraction with acuteregin followed by ICP-OESE024SoilARThiocyanate (as SCN) Co							
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 Phenols - Total (monohydric) Determination of PLB by extraction with water followed by clerometric measurement E007 Soil D Phosphate - 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 sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E008 Soil AR Sulphate (as SO4) Determination of sulphate by extraction with water & analysed by ion chromatography E004 Soil AR Sulphate (as SO4) Sulphate (as SO4) E014 Soil				Determination of organic matter by oxidising with potassium dichromate followed by titration with	1		
SoilARPCB - 7 CongenersDetermination of PCB by extraction with actone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE001SoilARPhenols - Total (monohydric)Determination of pit by addition of water followed by electrometric measurementE007SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphice by extraction with aqua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction in acutos oda followed by ICP-OESE014SoilARSulphate (as SCN)Determination of sulphate by extraction in acutos oda followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of organic campounds by extraction in acutos oda followed by ac	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005		
SoilDPetroleum Ether Extract (PE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by electrometryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARChrochystaph	Soil	۸D	PCB - 7 Congonors		E008		
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (monolytic):Determination of phenols by distillation followed by colorimetryE021SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphate by extraction with aqua-reqia followed by ICP-OESE024SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE007-OESSoilARThiocyanate (as SCN)Determination of rinitize followed by colorimetryE001SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with aqua-reqia followed by acidification followed by GC-MSE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Intrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC) </td <td></td> <td></td> <td></td> <td></td> <td></td>							
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with aua-regia followed by ICP-OESE024SoilARSulphate (as SC4)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of firct intrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ron (II) sulphateE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21,							
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of sulphate by extraction with analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate - Total Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of thicoyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE006SoilARThicoyanate (as SCN)Determination of organic matter by oxidising with potassium dichromate followed by titration with addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TCC)Determination of pracine matter by oxidising with potassium dichromate followed by titration with addition of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TCC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C21-C21,							
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - TotalDetermination of sulphide by distiliation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of sulphide by distiliation followed by colorimetryE009SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of function of function and semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with blueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: 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-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44,					-		
SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as S04)Determination of total sulphur by extraction with aqua-regia followed by acidification followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE011SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6- C8, C8- C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, 							
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE018SoilARStophur - TotalDetermination of sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARStophur - TotalDetermination of sulphur by extraction with aqua-regia followed by acidification followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C34, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21							
SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSvCocDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferri- nitrate followed by colorimetryE006SoilARThiocyanate (as SCN) Toluene Extractable Matter (TEM)Determination of thiocyanate by extraction with tolueneE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C10-C12, c17-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, c17-C12, C12-C16, C16-C21, C21-C23, c17-C12, C12-C16, C16-C21, C21-C23,<		D					
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		AR			E018		
SoilARControl Control Contro		D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024		
SoilARThiocyalate (a SCN) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryEU17SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilAROVCSDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) C10-C12, C12-C16, C16-C21, C21-C35, C35-C44Determination of volatile organic compounds by headspace GC-MSE001	Soil	AR		Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by	E006		
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TCC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arrtidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8, C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	AR	Thiocyanate (as SCN)		E017		
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-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-MSE004SoilARTPH 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, arrtidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	D	Toluene Extractable Matter (TEM)		E011		
SoilARTPH LQM (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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arritidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001				Determination of organic matter by oxidising with potassium dichromate followed by titration with			
SoilARC10-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-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	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 VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			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)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS			
			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



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-14334

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231120
Sample Receipt Date:	22/11/2023
Sample Scheduled Date:	22/11/2023
Report Issue Number:	1
Reporting Date:	29/11/2023

Authorised by:

S.CZ

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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.





Soil Analysis Certificate				
DETS Report No: 23-14334	Date Sampled	20/11/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 2 TS		
Project / Job Ref: 1935	Additional Refs	E1		
Order No: 1935 231120	Depth (m)	0.00 - 0.25		
Reporting Date: 29/11/2023	DETS Sample No	686679		

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected				
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion								

Subcontracted analysis (S)



Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-14334
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231120
Reporting Date: 29/11/2023

Matrix	Analysed	Determinand	Brief Method Description	Method
Soil	On D	Boron - Wator Solubla	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	No E012
Soil	AR		Determination of BTEX by headspace GC-MS	E012 E001
Soil	D		Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E001
Soil	D		Determination of caloris in soir by adda regia digestion followed by 10 OES Determination of chloride by extraction with water & analysed by ion chromatography	E002
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of	E016
			1,5 diphenyicarbazide followed by colorimetry	
Soil	AR		Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR		Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR D		Determination of total cyanide by distillation followed by colorimetry	E015 E011
Soil Soil	AR		Gravimetrically determined through extraction with cyclohexane Determination of hexane/acetone extractable hydrocarbons by GC-FID	E011 E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium suppate followed by	E022
			electrometric measurement	
Soil	AR	,	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D		Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR		Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR		Determination of acetone/hexane extractable hydrocarbons by GC-FID Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by	E004
Soil	AR	C12-C16, C16-C21, C21-C40)		E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D		Determination of TOC by combustion analyser.	E005
Soil	D		Determination of TOC by combustion analyser.	E027
Soil	D		Determination of TOC by combustion analyser.	E027
Soil	AR		Determination of ammonium by discrete analyser.	E029
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	E019
Soil	D	Magnesium - Water Soluble	furnace Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D		Determination of metals by aqua-regia digestion followed by ICP-OES	E023
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE	E002
Soil	AR	Maistura Contant	cartridge Moisture content; determined gravimetrically	E003
Soil	D		Determination of nitrate by extraction with water & analysed by ion chromatography	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with	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		Gravimetrically determined through extraction with petroleum ether	E003
Soil	AR		Determination of pH by addition of water followed by electrometric measurement	E011
Soil	AR		Determination of phenols by distillation followed by colorimetry	E021
Soil	D		Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D		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		Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR		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	E011
		TPH CWG (ali: C5- C6, C6-C8, C8-C10,	iron (II) sulphate	
Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34,	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)		E004
Soil	AR		Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR		Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001
D	Dried			

D Dried AR As Received



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd Unit 1 Rose Lane Industrial Estate Rose Lane Lenham Heath Kent ME17 2JN t: 01622 850410

DETS Report No: 23-14337

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231120
Sample Receipt Date:	22/11/2023
Sample Scheduled Date:	22/11/2023
Report Issue Number:	1
Reporting Date:	29/11/2023

Authorised by:

Sil

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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.





Soil Analysis Certificate							
DETS Report No: 23-14337	Date Sampled	20/11/23					
Green Earth Management Co Ltd	Time Sampled	None Supplied					
Site Reference: Blofield	TP / BH No	Plot 2 TS					
Project / Job Ref: 1935	Additional Refs	E2					
Order No: 1935 231120	Depth (m)	0.00 - 0.25					
Reporting Date: 29/11/2023	DETS Sample No	686696					

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected				
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion								

Subcontracted analysis (S)



Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-14337
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231120
Reporting Date: 29/11/2023

Sale D Born : Ward Soluble Determination of Ward solub Into water soluble hours in all by 21 hold water and at Gives ID VI-OES. CO12 Sale D Cattors Determination of Tarts by handpace CA-OS Exclusion	Matrix	Analysed	Determinand	Brief Method Description	Method		
Gui AR ITEX Determination of GITEX by backgapes GC-MS E001 Soil D Callonds Hearmation of callonia usib ysame and degution followed by CIP-OES E002 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Conniets - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Control - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Control - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Electrical Conduction Determination of electrical conduction by addition of value followed by GC-MD E004 Soil AR Electrical Conduction Determination of electrical conduction by addition of value followed by GC-MD E004 Soil AR Electrical Conduction Determination of electrical conduction by addition of value followed by GC-MD E004 Soil AR Electrical Conduction by addition of value followed by CG-MD <	Soil	On	Boron - Wator Solubla	Determination of water coluble baren in cell by 2:1 bet water extract followed by ICD OES	No		
Soil D Cettors Distantaneous of cattors in soil to squar-nega dispetitor followed by (20-06) E000 Soil AR Ortomium - Hoxaveler, Destimation of hearwaler chromum in soil by searaction in water they additation, addition of end of the end of th					-		
501 D Oblidie - Wale Soluble (2): Determination of choirable petratacion with wate 8 analysed by ion chromatography 500 601 AR Oromium - Housevaler, Chromium is obly extraction in water then by additication, Addition of 10, 10 601 601 AR Oromium - Housevaler, Chromite in sol by extraction with vectormetry. 601 601 AR Orodination - Trad Determination of the advised chromite by addition of invector by colormetry. 601 601 AR Orderate - Trad Determination of the advised chromite by addition of invector advised acids in soluble tradication and invector advised acids in soluble tradication advised to							
Soli AR Chromum - Hexavalent Determination of hexavalent chromium in solity schedulen in worker them by schedulen, solution, solution of solity Ensite Solity AR Cyradiac - Complex Determination of complex squarks by disalitation followed by colorimetry EDIS Solity AR Cyradiac - Complex Determination of complex squarks by disalitation followed by colorimetry EDIS Solity D Cyradiac - Complex Determination of free squarks by disalitation followed by colorimetry EDIS Solity D Cyradiac - Complex Determination of electrical conductivity by addition of water followed by ECHD EDIS Solity AR Electrical Conductivity Determination of actional conductivity by addition of water followed by ECHD EDIS Solity AR Electrical Conductivity Determination of actional conductivity by addition of water followed by ECHD EDIS Solity AR EPH totacity Determination of actional conductivity by addition of water followed by ECHD EDIS Solity AR EPH totacity Determination of Totacity by addition of water followed by ECHD EDIS Solity AR EPH totacity Determination of Totacity by addition of water followed by ECHD							
Sail AR Openation Openation<				Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of			
Soil AR Cynamic - Tree Determination of the cynamic by dolling followed by colorinnetry. EDIS Soil D Cycbheame Extractable Matter (CEH) Growindreally determined through extraction with cycloheame. EDIS Soil AR Deserf Earcy Condition EDIS EDIS Soil AR Electrical Conductivity Editation followed by colorinnetry. EDIS Soil AR Electrical Conductivity Determination of electrical conductivity by addition of vaster followed by electrometric measurement. EDIS Soil AR Electrical Conductivity Determination of electrical conductivity by advert evidencino followed by Col So (20.5) EDIS Soil AR Eleverted Conductivity Determination of eleverted solutivity by advert evidencino followed by Col So (20.5) EDIS Soil AR EPI TUSAK (CE), CC (CE) (CE) (CE) (CE) (CE) (CE) (CE) (Soil	ΔR	Cvanide - Complex		E015		
Sail AR Cyclobiases Extractable Mater (CB) Gravitisticity distillation followed by coorinnerly. E011 Sail AR Dissel Range Organics (CID - C2) Determination of beam/extende water. (Columbus of subursted calcum subplate followed by CD22 Extra conductivity distribution of electrical conductivity by addition of subursted calcum subplate followed by CD22 Sail AR Electrical Conductivity Determination of electrical conductivity by addition of subursted calcum subplate followed by CC-MS E023 Sail D Electrical Conductivity Determination of electrical conductivity by addition of water followed by CC-MS E023 Sail AR Electrical Conductivity Determination of accomplexame extractable hydrocarbors by CC-MD E004 Sail AR EPH TEXAS (CP-C3, C3-C10, C1-C10) Determination of accomplexame extractable hydrocarbors by CC-MD E004 Sail D First Condo Cascular Cascular by advance carbacity advance carbacity advance carbacity by advance carbacity by advance carbacity advance carbacity advance carbacity advance carbacity by advance carbacity by advance carbaci							
Soil D Cockbearse Extractable Nater (CEN) Gravimetrically determined through extraction with cycloheane							
Soil AR Desel Range Organics (C10 - C20) Determination of hexane/actore extractable hydrocarbors by CC-FID ED00 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subtracted calcium subplete followed by electrometric E022 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR EPH TED4K C3C B-C11, C1-C40) Determination of actore/measure extractable hydrocarbors by CC-FID E004 Soil AR EPH TED4K C3C B-C12, C1-C40) Determination of Table by estractain with water & analysed by ion chromatography E007 Soil D Protoch Organic Matter (S04) Determination of TOC by combistion analyser. E027 Soil D FoC (Fraction Organic Matter (S04) Determination of ToC by combistion analyser. E027 Soil D Horgan Organic Matter (S04) Determination of ToC by combistion analyser. E027 Soil D Horgan Organic Mat			Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane			
Sail AR Electrical Conductivity Description Electrical Conductivi	Soil	AR			E004		
Sol D Elemental Subtra Determination of elemental subtra Solvester extraction followed by CC-MS ED30 Sol AR EPH Fractor ED ED30 ED34 ED31 ED33 ED34	Soil	AR	Electrical Conductivity		E022		
Soil AR EPH (Cio - Ca0) Determination of actors/hexane extratable hydrocarbons by GC-FID E004 Soil AR EPH TEXAS (GC-G, GC-GL) E004 E004 Soil AR EPH TEXAS (GC-G, GC-GL) E004 E004 Soil D Fluctude - Water Soluble Determination of acetors/hexane extratable hydrocarbons by GC-FID for CB to C40. C5 to CB by E004 Soil D Fluctude - Water Soluble Determination of TOC by combustion analyser. E027 Soil D TOC (Tradi Organic Carbon) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E027 Soil D FOC (Fracin Organic Carbon) Determination of tocs on publicity analyser. E027 Soil D FOC (Fracin Organic Carbon) Determination of tocs on publicity analyser. E023 Soil D Loss on Ignition (9 450C Charbon Determination of metas by aqua-regai digation. Followed by ICP-OES E002 Soil D Magnesium - Water Soluble Determination of nearea/scatce certractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Mineral Oil (C10 - Ca) <td>Soil</td> <td>AR</td> <td>Electrical Conductivity</td> <td colspan="4"></td>	Soil	AR	Electrical Conductivity				
Soil AR EPH Product ID Determination of acctors/hexane extractable hydrocarbons by GC-FID E004 Soil D FPH TEXS (SC-G3, GS-ID, (C) C12), Determination of acctors/hexane extractable hydrocarbons by GC-FID E004 Soil D Fraction Organic Carbon (FGD) Determination of TOC by combustion analyser. E007 Soil D Fraction Organic Carbon (FGD) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGD) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGD) Determination of Totacin or organic carbon by oxidising with potassium dichromate followed by (EPC-FS) E027 Soil D Loss on Ignition (# 94500C Determination of maters shall be pare-impaid digestion followed by ICP-CFS E002 Soil D Meansel by Carbon on the tarbon of a soil by Carbon on the tarbon on tarbon on the tarbon on tarbon on the tarbon on the tarbon on tarbon on the tarbon on the tarbon on tarbon on the tarbon on tarbon	Soil	D			E020		
Sol AR EPH TEXAS (C6-C8, C8-C10, C10-C12, Determination of acetom/phesane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of ToC by combustion analyser. E007 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of ToC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbo) Determination of Gragnic carbon by oxidising with potassium dichromate followed by E029 Soli D Loss on Ignition @ 4500. Determination of action Gragnic carbon by oxidising with potassium dichromate followed by E029 Soli D Magnesium - Water Soluble Determination of nectals by acua-regis digestion followed by UC-DES E002 Soli AR Mineral Oil (1.01 - c40) Determination of action carbons by dick-FID for CHD fractionating with SPE E004 Soli D Nittate Soluble (2) Determination of action carbon by dick on the dick on th	Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004		
Soli AR C12-C16, C12, C12-C10, Paddsace GC-MS E000 Soli D Floxion Organic Carbon (FOC) Determination of TOC by combustion analyser. E007 Soli D Organic Carbon (FOC) Determination of TOC by combustion analyser. E007 Soli D Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Annonium (Determination of TOC by combustion analyser. E029 Soli D FOC (Fraction Organic Carbon) Determination of raction of os on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soli D Magnesium - Water Soluble Determination of metals by acutarcias with water followed by ICP-OES E002 Soli D Magnesium - Water Soluble Determination of Interace regratable hydrocarbons by GC-IDI fractionating with SPE E004 Soli AR Mineral OII (C10 - O40) Petermination of Interace Partically in Analysed by ion Annatography E003 Soli AR Mineral OII (C10 - C40) Petermination of Interace Partically in Annatography E003 Soli AR Mineral OII (C10 - C40) Petermination of Interace Partically manalysed by ion Annanatograph	Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004		
Soil D Cl2Cl6, L02/L02/L02/L02/L02/L02/L02/L02/L02/L02/	Soil	۸D	EPH TEXAS (C6-C8, C8-C10, C10-C12,	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by	E004		
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Annonuum Determination of ToC by combustion analyser. E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxiding with potassium dichromate followed by E010 Soil D Loss on Ignition @ 4500 Determination of raction of vaster soluble magnesium by extraction with water followed by ICP-OES E002 Soil D Magnesium - Water Soluble Determination of restain by acur-regia disession followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Arridge E004 Soil AR Moisture Content Moisture content, determined gravimetrically E003 Soil D Organic Matter Determination of PA1 computed by extraction in the analysed by ion chromatography E004 Soil AR PAH - Speciated (CFA 16) Determination of PA1 computed by extraction with acetone and hexane followed by CC-MS with the followead by CC-MS with the followead by CC-MS with the followead by CB - C3 congeas analinteral standa							
Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. [E027] Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. [E027] Soil D FOC (Fraction Organic Carbon) Determination of a monium by discrete analyser. [E027] Soil D FOC (Fraction Organic Carbon) Determination of a monium by discrete analyser. [E029] Soil D Magnesium - Vater Soluble Determination of rease / soluble magnesium by extraction with three sample being ignited in a muffle [E019] Soil AR Mineral Oil (C10 - C40) Metas Determination of meane / sociato metas with water followed by ICP-OES [E003] Soil AR Mineral Oil (C10 - C40) Metas Determination of neane / sociato metas with water analysed with metas mutation analysed with the sample being ignited in a muffle [E003] Soil AR Mineral Oil (C10 - C40) Centremination of meane / sociato metas with water analysed with metas muffle [E003] Soil AR PAH - Speciated (EPA 16) [E004] [E004] [E005] Soil AR PAH - Speciated (EPA 16) [E007] [E008] [E004]							
Soil D TOC (Total Organic Carbon) Determination of mominum by discrete analyser. F027 Soil AR Exchangeable Ammonium Determination of amonium by discrete analyser. F029 Soil D FOC (Fraction Organic Carbon) Determination of maritor of organic carbon by oxidising with potassium dichromate followed by EP-0ES E019 Soil D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by ICP-0ES E025 Soil AR Mineral OII (C10 - C40) Petermination of mater by by extraction with water followed by ICP-0ES E002 Soil AR Mineral OII (C10 - C40) Petermination of mater by extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil D Nitrate - Water Soluble (21) Determination of intrate by extraction with water & analysed by ion chromatography E003 Soil AR PAH - Speciated (EPA 16) Petermination of intrate by extraction with water & analysed by ion chromatography E003 Soil AR PCE - 7 Congeme Petermination of indivation of WAI componeds by extraction in action and hexane followed by (C-MS with the E005 E003 Soil AR PEE - 7 Cong							
Soil AR Exchangeable Ammonium Determination of rancino of position of position carbon by oxidising with potassium dichromate followed by E029 Soil D POC (Fraction Organic Carbon) Determination of fraction of position carbon by oxidising with potassium dichromate followed by E010 Soil D Magnesium - Water Soluble Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil AR Mineral Oil (CIO - C40) Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral Oil (CIO - C40) Determination of meane/acatone extractable hydrocarbons by CG-FID fractionating with SPE E004 Soil AR Mineral Oil (CIO - C40) Determination of fraction with water & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (21) Determination of TAB by extraction with actone and hexane followed by GC-MS E005 Soil AR PAH - Speciated (EPA 16) Determination of TAB by extraction with actone and hexane followed by GC-MS E003 Soil AR PAE- Sociate (EE) Gravimetrically determined through extraction with water & analysed by ion chromatography <td< td=""><td></td><td></td><td></td><td></td><td>-</td></td<>					-		
Solit D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Solit D Loss on Ignition @ 450x Determination of matics with incluin Sulphate Determination of matics with incluin Sulphate E019 Solit D Magnesium - Water Soluble Determination of maters soluble magnesium by extraction with water followed by UCP-OES E002 Solit AR Mineral OII (C10-C40) Determination of maters by extraction with water followed by UCP-OES E003 Solit D Nitrate - Water Soluble (21) Determination of mater by extraction with water & analyzed by ion chromatography E003 Solit D Organic Matter Petermination of mater by extraction with water & analyzed by ion chromatography E003 Solit AR PAH - Speciated (EPA 16) Betrimination of PAH compounds by extraction in acctone and hexane followed by GC-MS with the E005 Solit AR PCB - 7 Congernes E001 Determination of PAH compounds by extraction with maters and hexane followed by GC-MS with the E007 Solit AR PCB - 7 Congernes E001 Determination of PAH compounds by extraction with maters analy							
Soil D Loss on Ignition Q 4500c Etermination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Cetermination of water soluble magnesium by extraction with water followed by ICP-OES E022 Soil AR Mineral Oil (C10 - C40) E004 E004 Soil AR Mineral Oil (C10 - C40) Catridge E003 Soil AR Mineral Oil (C10 - C40) Catridge E004 Soil D Nitrate - Water Soluble (C11) Determination of nitrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Mattr Entermination of PAI compounds by extraction in actione and hexane followed by GC-MS with the E005 Soil AR PAH - Speciated (EPA 16) E014 compounds by extraction with actione and hexane followed by GC-MS with the E005 Soil AR Petroleum Ether Extract (PEE) Gravimetrically determination of PAI compounds with action analysed by ion chromatography E001 Soil AR Phenols - Total (monohydric) Determination of analysed by extraction with water & analysed by ion chromatography E001 Soil				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by	1		
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E025 Soil D Magnesium - Water Soluble Determination of metals by aqua-regia diguestion followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/actome extractable hydrocarbons by GC-RD fractionating with SPE cartridge E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titraton with e003 E003 Soil D Organic Matter Determination of PAH compounds by extraction with water & analysed by ion chromatography E003 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with petroleum ether E004 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds to water followed by GC-MS with the E005 Soil AR PHenols - Total (monohydic) Determination of water followed by colorimetry E001 Soil AR Phenols - Total (monohydic) Determination of valatilitation followed by colorimetry E001 Soil AR Phenols - Total (monohydi			,				
Soil D Metals Determination of metals by aqua-regia digastion followed by ICP-OES E002 Soil AR Mineral Oil (Cl0 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-HD fractionating with SPE E004 Soil AR Moisture Content Moisture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of furtate by extraction with water & analysed by ion chromatography E009 Soil AR PAH - Speciated (EPA 16) Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH by extraction with acetone and hexane followed by GC-MS E008 Soil AR PAtroleum Ether Extract (PEE) Determination of soganic charge by extraction with water & analysed by ion chromatography E001 Soil AR Phenols - Total (monhydirc): Determination of buody by clochometry E001 Soil AR							
Soil AR Mineral OII (C10 - C40) cartidge Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartidge E004 Soil AR Moisture Content, Moisture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of ruganic matter by oxidising with potassium dichromate followed by thration with tron (11) subhate E009 Soil AR PAH - Speciated (EPA 16) Use of surrogate and internal standards. E005 Soil AR PCB-7 Congenes Edetinination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards. E003 Soil AR PCB-7 Congenes Edetinination of PCB by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards. E0004 Soil AR Phenols - Total (monohydric) Determination of phenols by colorinetry E001 Soil AR Phenols - Total (monohydric) Determination of subsphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of subsphate by extraction with water & analysed by ion chromatography E003 Soil AR Sulphate (as SO4) - Total Determinati							
Soli AR Imineration (C10-C40) artridge artridge ED04 Soli D Nitrate - Water Soluble (2:1) betermination of nurate by extraction with water & analysed by ion chromatoaraphy ED03 Soli D Organic Matter ron (11) subplate Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the betermination of PAI compounds by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR Phenoles - Total (monohydric) Determination of Phosphate by to colorimetry ED01 Soli AR Phenoles - Total (monohydric) Determination of botal subplate by extraction with water & analysed by ion chromatography ED03 Soli D Sulphate (as SO4) - Water Soluble (21) Determination of subplate by extraction with water & analysed by ion chromatography ED03 Soli D Sulphate (as SO4) - Water Soluble (21) Deter	Soil	D	Metals		E002		
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 term (1) sulphate E010 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS E006 Soil AR PCB - 7 Congeners Determination of PAB by extraction with acetone and hexane followed by GC-MS E008 Soil AR Phenols - Total (monohydric) Determination of pAH compounds the vartaction with herase analysed by ion chromatography E009 Soil D Phenols - Total (monohydric) Determination of total subplate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water & analysed by ion chromatography E009 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of subphate by extraction with water & analysed by ion chromato			, ,	cartridge			
SoilDOrganic Matther Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (III) sulphate ion (III) sulphateDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE010SoilARPAH - Speciated (EPA 16) use of surroacte and internal standardsDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE005SoilARPAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MSE008SoilDPheroleum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by ICP-OESE001SoilDPheoshate - Vater Soluble (21) Determination of phenols by distillation followed by colorimetryE002SoilDSulphate (as SO4) - Vater Soluble (21) Determination of total sulphate by extraction with water sanaksed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (21) Determination of soulphate by extraction with water followed by ICP-OESE014SoilARSulphiteDetermination of organic compounds by extraction with water followed by ICP-OESE024SoilARSulphiteDetermination of organic compounds by extraction with acute-regional followed by ICP-OESE024SoilARThiocyanate (as SCV)Determination of organic compounds by extraction with acute-regional followed by ICP-OESE024SoilARThiocyanate (as SCV)Determinat							
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 Phenols - Total (monohydric) Determination of PLB by extraction with water followed by clerometric measurement E007 Soil D Phosphate - 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 sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E008 Soil AR Sulphate (as SO4) Determination of sulphate by extraction with water & analysed by ion chromatography E004 Soil AR Sulphate (as SO4) Sulphate (as SO4) E014 Soil				Determination of organic matter by oxidising with potassium dichromate followed by titration with	1		
SoilARPCB - 7 CongenersDetermination of PCB by extraction with actone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE001SoilARPhenols - Total (monohydric)Determination of pit by addition of water followed by electrometric measurementE007SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphice by extraction with aqua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphice by extraction in acutos oda followed by ICP-OESE014SoilARSulphate (as SCN)Determination of sulphate by extraction in acutos oda followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of organic campounds by extraction in acutos oda followed by ac	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005		
SoilDPetroleum Ether Extract (PE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by electrometryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARChrochystaph	Soil	۸D	PCB - 7 Congonors		E008		
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (monolytic):Determination of phenols by distillation followed by colorimetryE021SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphate by extraction with aqua-reqia followed by ICP-OESE024SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction and hexane followed by GC-MSE007SoilARThiocyanate (as SCN)Determination of roin circate followed by colorimetryE001SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with aqua-reqia followed by acidification followed by GC-MSE007SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Intrate followed by colorimetryE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, <b< td=""><td></td><td></td><td></td><td></td><td></td></b<>							
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with aua-regia followed by ICP-OESE024SoilARSulphate (as SC4)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of firct intrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ron (II) sulphateE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21,							
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of sulphate by extraction with analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate - Total Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of thicoyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE006SoilARThicoyanate (as SCN)Determination of organic matter by oxidising with potassium dichromate followed by titration with addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TCC)Determination of pracine matter by oxidising with potassium dichromate followed by titration with addition of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TCC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C21-C21,							
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - TotalDetermination of sulphide by distiliation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of sulphide by distiliation followed by colorimetryE009SoilARSvOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE006SoilARThiocyanate (as SCN)Determination of organic carbon of todal sulphute by colorimetryE017SoilDTotal organic Carbon (TOC)Determination of organic matter by colorimetryE017SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, c13-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, c13-C13-C3E004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, c12					-		
SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as S04)Determination of total sulphur by extraction with aqua-regia followed by acidification followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE011SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6- C8, C8- C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, 							
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE018SoilARStophur - TotalDetermination of sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARStophur - TotalDetermination of sulphur by extraction with aqua-regia followed by acidification followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7,							
SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSvCocDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferri- nitrate followed by colorimetryE006SoilARThiocyanate (as SCN) Toluene Extractable Matter (TEM)Determination of thiocyanate by extraction with tolueneE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C10-C12, c17-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, c17-C12, C12-C16, C16-C21, C21-C23, c17-C12, C12-C16, C16-C21, C21-C23,<		D					
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		AR			E018		
SoilARControl Control Contro		D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024		
SoilARThiocyalate (a SCN) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryEU17SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilAROVCSDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) C10-C12, C12-C16, C16-C21, C21-C35, C35-C44Determination of volatile organic compounds by headspace GC-MSE001	Soil	AR		Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by	E006		
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TCC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arrtidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8, C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	AR	Thiocyanate (as SCN)		E017		
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH 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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-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-MSE004SoilARTPH 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, arrtidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	D	Toluene Extractable Matter (TEM)		E011		
SoilARTPH LQM (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-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arritidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001				Determination of organic matter by oxidising with potassium dichromate followed by titration with			
SoilARC10-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-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	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 VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			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)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS			
			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



Appendix 3

Soil Assessment Criteria





Generic Soil Assessment Criteria for the Assessment of Risk to Human Health								
Determinand	RwHP ¹ (mg/kg)	RwoHP ¹ (mg/kg)	POS _{resi} ¹ (mg/kg)	Source				
Asbestos	ND	ND	ND					
Metals and Metalloids								
Arsenic	37	40	79	LQM / CIEH (2015) S4UL ²				
Barium	-	1300	-	CL:AIRE (2010) ³				
Beryllium	1.7	1.7	2.2	LQM / CIEH (2015) S4UL ²				
Boron	290	11000	21000	LQM / CIEH (2015) S4UL ²				
Cadmium	11	85	120	LQM / CIEH (2015) S4UL ²				
Chromium (III)	910	910	1500	LQM / CIEH (2015) S4UL ²				
Chromium (VI)	6	6	7.7	LQM / CIEH (2015) S4UL ²				
Copper	2400	7100	12000	LQM / CIEH (2015) S4UL ²				
Lead	200	310	630	Defra (2014) C4SL ⁴				
Mercury - Elemental	1.2	1.2	16	LQM / CIEH (2015) S4UL ²				
Mercury - Inorganic	40	56	120	LQM / CIEH (2015) S4UL ²				
Mercury - Methyl	11	15	40	LQM / CIEH (2015) S4UL ²				
Nickel	130	180	230	LQM / CIEH (2015) S4UL ⁵				
Selenium	250	430	1100	LQM / CIEH (2015) S4UL ²				
Vanadium	410	1200	2000	LQM / CIEH (2015) S4UL ²				
Zinc	3700	40000	81000	LQM / CIEH (2015) S4UL ²				
Polyaromatic Hydrocarbons (USEPA 16) -	At 1% Soil Organic Matte	r						
Naphthalene	2.3	2.3	4900	LQM / CIEH (2015) S4UL ²				
Acenaphthylene	170	2900 (86.1) ^{sol}	15000	LQM / CIEH (2015) S4UL ²				
Acenaphthene	210	3000 (57.0) ^{sol}	15000	LQM / CIEH (2015) S4UL ²				
Fluorene	170	2800 (30.9) ^{sol}	9900	LQM / CIEH (2015) S4UL ²				
Phenanthrene	95	1300 (36.0) ^{sol}	3100	LQM / CIEH (2015) S4UL ²				
Anthracene	2400		74000	LQM / CIEH (2015) S4UL ²				
Fluoranthene	280	1500	3100	LQM / CIEH (2015) S4UL ²				
Pyrene	620	3700	7400	LQM / CIEH (2015) S4UL ²				
Benzo(a)anthracene	7.2	11	29	LQM / CIEH (2015) S4UL ²				

Green Earth Management Company Limited trading as GEMCO Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129

Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22



Generic Soil Assessment Criteria for the Assessment of Risk to Human Health							
Determinand	RwHP ¹ (mg/kg)	RwoHP ¹ (mg/kg)	POS _{resi} ¹ (mg/kg)	Source			
Chrysene	15	30	57	LQM / CIEH (2015) S4UL ²			
Benzo(b)fluoranthene	2.6	3.9	7.1	LQM / CIEH (2015) S4UL ²			
Benzo(k)fluoranthene	77	110	190	LQM / CIEH (2015) S4UL ²			
Benzo(a)pyrene	2.2	3.2	5.7	LQM / CIEH (2015) S4UL ²			
Indeno(1,2,3-cd)pyrene	27	45	82	LQM / CIEH (2015) S4UL ²			
Di-benzo(a,h)anthracene	0.24	0.31	0.57	LQM / CIEH (2015) S4UL ²			
Benzo(ghi)perylene	320	360	640	LQM / CIEH (2015) S4UL ²			
Coal Tar (BaP surrogate marker)	0.79	1.2	2.2	LQM / CIEH (2015) S4UL ²			
Total Petroleum Hydrocarbons (LQM Banding) – At 1% Soil Organic Matter							
Aliphatic EC5 - EC6	42	42	570000 (304) ^{sol}	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC6 - EC8	100	100	600000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC8 - EC10	27	27	13000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC10 - EC12	130 (48) ^{vap}	130 (48) ^{vap}	13000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC12 - EC16	1100 (24) ^{sol}	1100 (24) ^{sol}	13000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC16 - EC35	65000 (8.48) ^{sol}	65000 (8.48) ^{sol}	250000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC35 - EC44	65000 (8.48) ^{sol}	65000 (8.48) ^{sol}	250000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC5 - EC7	70	370	56000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC7 - EC8	130	860	56000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC8 - EC10	34	47	5000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC10 - EC12	74	250	5000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC12 - EC16	140	1800	5100	LQM / CIEH (2015) S4UL ²			
Aromatic >EC16 - EC21	260	1900	3800	LQM / CIEH (2015) S4UL ²			
Aromatic >EC21 - EC35	1100	1900	3800	LQM / CIEH (2015) S4UL ²			
Aromatic >EC35 - EC44	1100	1900	3800	LQM / CIEH (2015) S4UL ²			
Ali + Aro >EC44 - EC70	1600	1900	3800	LQM / CIEH (2015) S4UL ²			
BTEX + MTBE – At 1% Soil Organic Matter							
Benzene	0.087	0.38	72	LQM / CIEH (2015) S4UL ²			
Toluene	130	880 (869) ^{vap}	56000	LQM / CIEH (2015) S4UL ²			

Green Earth Management Company Limited trading as GEMCO

Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129

Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22



Generic Soil Assessment Criteria for the Assessment of Risk to Human Health							
Determinand	RwHP ¹ (mg/kg)	RwoHP ¹ (mg/kg)	POS _{resi} ¹ (mg/kg)	Source			
Ethylbenzene	47	83	24000	LQM / CIEH (2015) S4UL ²			
o-Xylene	60	88	41000	LQM / CIEH (2015) S4UL ²			
m-xylene	59	82	41000	LQM / CIEH (2015) S4UL ²			
p-xylene	56	79	41000	LQM / CIEH (2015) S4UL ²			
MTBE (Methyl <i>tert</i> -butyl ether)	49	73		CL:AIRE (2010) ³			
Phenol – At 1% Soil Organic Matter							
Phenol	120	440 ^{dir} (460)	440 ^{dir} (10000)	LQM / CIEH (2015) S4UL ²			
PHEIIO	120	440* (400)	440* (10000)				

Notes:

sol GAC exceed the solubility saturation limit which is presented in brackets; consideration of the CSM may be required

vap GAC exceed the vapour saturation limit which is presented in brackets; consideration of the CSM may be required

sat GAC exceed a soil saturation limit (not specified) which is presented in brackets; consideration of the CSM may be required

dir GAC is based on tolerable direct contact concentration; long term health protection value presented in brackets

(1) RwHP = Residential land use including significant production and consumption of home-grown produce; RwoHP = Residential land use without significant production and consumption of home-grown produce; POS_{resi} = Public open space in close proximity to residential properties

(2) Nathanial, C.P. *et al.* (2015), The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Note that the LQM / CIEM S4ULs update and replace the former LQM / CIEH GAC on the basis of new toxicological and refined modelling data. The S4ULs also cover the Environment Agency SGV substances with the inclusion of updated toxicological and modelling data.

(3) CL:AIRE, 'Soil Generic Assessment Criteria for Human Health Risk Assessment', 2010.

(4) Defra (2014), 'SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination - Policy Document Companion Document', Defra, December 2014; CL:AIRE Report 'SP1010 - Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affecte

(5) Nathanial, C.P. et al. (2015), The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Nickel update (August 2015).

Phytotoxic Contaminants (by Soil pH) ¹							
Contominant (mg/kg dry sail)	Soil pH						
Contaminant (mg/kg dry soil)	5.5 - 6.0	6.0 - 7.0	> 7.0				
Zinc (nitric acid extractable)	< 200	< 200	< 300				
Copper (nitric acid extractable)	< 100	< 135	< 200				
Nickel (nitric acid extractable)	< 60	< 75	< 110				
British Standard BS 3882:2015, Specification for Topsoil and requirements for use, 2015							

Green Earth Management Company Limited trading as GEMCO

Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129

Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22