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DETS Report No: 24-00962

Site Reference: The Dukes Head, 9 Dymchurch Road

Project / Job Ref: 1673/03

Order No: None Supplied

Sample Receipt Date: 01/02/2024

Sample Scheduled Date: 01/02/2024

Report Issue Number: 1

Reporting Date: 07/02/2024

Authorised by:

Steve Knight
Customer Support Manager

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

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Soil Analysis Certificate						
DETS Report No: 24-00962	Date Sampled	25/01/24	25/01/24	25/01/24	25/01/24	
Peter Baxter Associates Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: The Dukes Head, 9 Dymchurch Road	TP / BH No	TP1	TP1	TP2	TP2	
Project / Job Ref: 1673/03	Additional Refs	NA	NA	NA	NA	
Order No: None Supplied	Depth (m)	0.20	0.40	0.30	0.60	
Reporting Date: 07/02/2024	DETS Sample No	696857	696858	696859	696860	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
Arsenic (As)	mg/kg	< 2	ISO17025	7	6	6	4
Barium (Ba)	mg/kg	< 2.5	ISO17025	48	43	41	32
Beryllium (Be)	mg/kg	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	6	6	6	5
Copper (Cu)	mg/kg	< 4	ISO17025	38	49	53	28
Lead (Pb)	mg/kg	< 3	ISO17025	99	72	65	103
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	9	9	8	6
Selenium (Se)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	ISO17025	16	15	13	10
Zinc (Zn)	mg/kg	< 3	ISO17025	60	59	62	51

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)

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-00962	Date Sampled	25/01/24	25/01/24	25/01/24	25/01/24	
Peter Baxter Associates Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: The Dukes Head, 9 Dymchurch Road	TP / BH No	TP1	TP1	TP2	TP2	
Project / Job Ref: 1673/03	Additional Refs	NA	NA	NA	NA	
Order No: None Supplied	Depth (m)	0.20	0.40	0.30	0.60	
Reporting Date: 07/02/2024	DETS Sample No	696857	696858	696859	696860	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	0.43	< 0.1	0.28	0.15
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	0.42	< 0.1	0.81	0.52
Pyrene	mg/kg	< 0.1	ISO17025	0.38	< 0.1	0.84	0.49
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	0.17	< 0.1	0.48	0.25
Chrysene	mg/kg	< 0.1	ISO17025	0.18	< 0.1	0.52	0.23
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	0.18	< 0.1	0.68	0.24
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	0.18	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	0.14	< 0.1	0.56	0.20
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	0.32	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	0.31	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	1.9	< 1.6	5	2.1

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-00962	Date Sampled	25/01/24	25/01/24	25/01/24	25/01/24
Peter Baxter Associates Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: The Dukes Head, 9 Dymchurch Road	TP / BH No	TP1	TP1	TP2	TP2
Project / Job Ref: 1673/03	Additional Refs	NA	NA	NA	NA
Order No: None Supplied	Depth (m)	0.20	0.40	0.30	0.60
Reporting Date: 07/02/2024	DETS Sample No	696857	696858	696859	696860

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00962	Date Sampled	25/01/24	25/01/24	25/01/24	25/01/24	
Peter Baxter Associates Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: The Dukes Head, 9 Dymchurch Road	TP / BH No	TP1	TP1	TP2	TP2	
Project / Job Ref: 1673/03	Additional Refs	NA	NA	NA	NA	
Order No: None Supplied	Depth (m)	0.20	0.40	0.30	0.60	
Reporting Date: 07/02/2024	DETS Sample No	696857	696858	696859	696860	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	3	3	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 24-00962	
Peter Baxter Associates Ltd	
Site Reference: The Dukes Head, 9 Dymchurch Road	
Project / Job Ref: 1673/03	
Order No: None Supplied	
Reporting Date: 07/02/2024	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
696857	TP1	NA	0.20	6.9	Brown sandy gravel with stones
696858	TP1	NA	0.40	6.7	Brown sandy gravel with stones
696859	TP2	NA	0.30	12.8	Brown sandy gravel with stones and brick
696860	TP2	NA	0.60	9.4	Brown sandy gravel with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/s}

Unsuitable Sample ^{u/s}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-00962

Peter Baxter Associates Ltd

Site Reference: The Dukes Head, 9 Dymchurch Road

Project / Job Ref: 1673/03

Order No: None Supplied

Reporting Date: 07/02/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	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)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	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 furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received