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14th June 2018 – Clearance of northern boundary



15th June 2018 – Clearance of northern boundary

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15th June 2018 – Clearance of northern boundary



15th June 2018 – Clearance of northern boundary

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15th June 2018 – View of the northern boundary facing west



18th June 2018 – View of the northern boundary facing east

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18th June 2018 – View of the northern boundary facing west



19th June 2018 – View of the eastern boundary facing south

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19th June 2018 – View of the eastern boundary facing south



19th June 2018 – View of the eastern boundary facing south

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19th June 2018 – View of the eastern boundary facing south



22nd June 2018 – View of the eastern boundary facing north

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25th September 2018 – Water supply pipes Plots 20-27



9th October 2018 – View facing east of central stockpile

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9th October 2018 – View of central stockpile



9th October 2018 – View of central stockpile

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9th October 2018 – View of central stockpile



9th October 2018 – View facing south-east of southern units

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9th October 2018 – View facing north-east



22nd October 2018 – Water supply pipes Plots 10-19

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5th November 2018 – View facing east along southern site boundary following deposition of soil from central stockpile



5th November 2018 – View of inspection pit to verify placed soil depth

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5th November 2018 – View of area adjacent to southern site boundary



5th November 2018 – View of inspection pit

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5th November 2018 – View of inspection pit



5th November 2018 – View of inspection pit

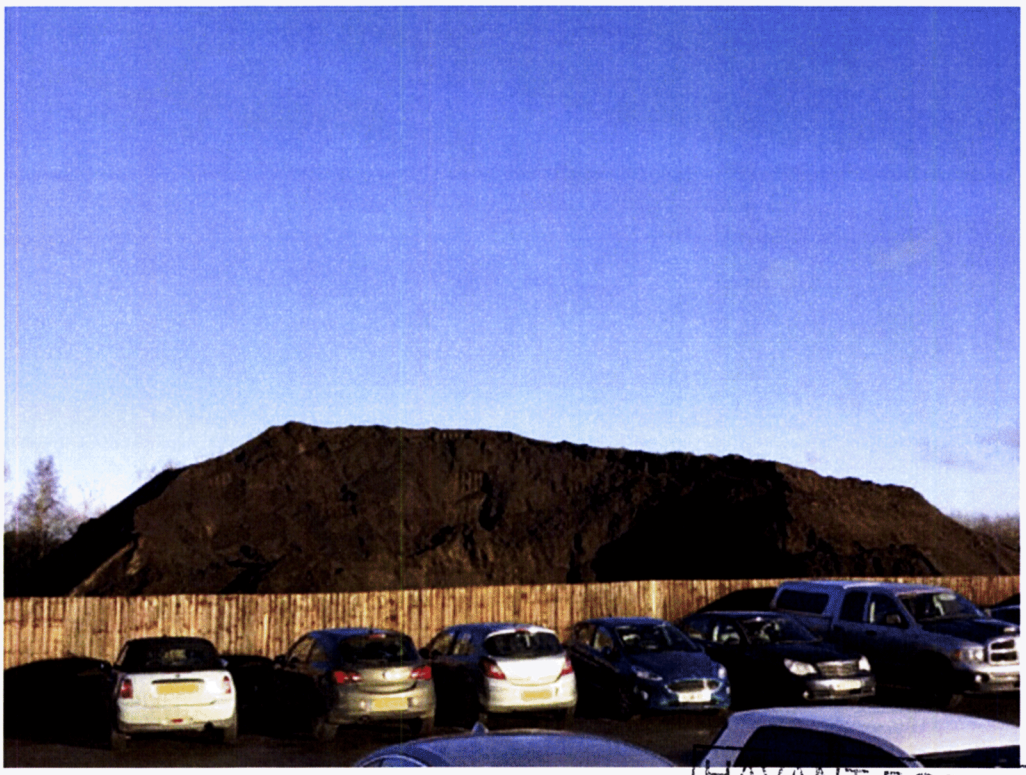
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12 JUN 2019
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PHOTOGRAPHIC RECORD - 5006015



26th November 2018 – Water supply pipes Plots 4-9



18th January 2019 – View of Topsoil stockpile at Tangmere

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30th January 2019 – Central part of site – play area



30th January 2019 – Central part of site – play area. Note, warning tape over installed service

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30th January 2019 – Central part of site – play area. Site-won soil utilised.



30th January 2019 – Central part of site – play area. Site-won soil utilised.

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30th January 2019 – Soil imported to site and placed in stockpile. Ridge obtained samples for analysis.



30th January 2019 – Southern plots of site turfed

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30th January 2019 – Southern plots of site turfed



30th January 2019 – Southern plots of site turfed

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30th January 2019 – Southern plots of site turfed



30th January 2019 – North of site, view to the east. Top layer of soil has been cleared ready for raising levels.

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PHOTOGRAPHIC RECORD - 5006015



30th January 2019 – North of site, view to the west.



30th January 2019 – North-east corner of the site facing east. Note eastern site boundary has been excavated as shown in previous photographs.

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30th January 2019 – Facing south from the north-east corner of the site. Potentially impacted soils have been removed.



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30th January 2019 – Facing south on the eastern edge of the site. Potentially impacted soils have been removed.

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30th January 2019 – Facing south on the eastern edge of the site. Potentially impacted soils have been removed.



30th January 2019 – View form the centre of the site towards the northern units.

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15th February 2019 – View form the centre of the site towards the north-western unit.



15th February 2019 – View form the centre of the site towards the northern units.

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15th February 2019 – Imported soil to the central play area was analysed



4th March 2019 – Imported topsoil being spread onto front of Plot 9

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4th March 2019 – Typical rear of Plots 1-9 prior to spreading imported topsoil



4th March 2019 – Typical front of northern plots following turfing

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4th March 2019 – Typical rear of northern plots following turfing



26th March 2019 – Extreme north-western part of site, Plot 1 on RHS of picture

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26th March 2019 – Extreme north-western part of site, Plot 1 fence at top of picture

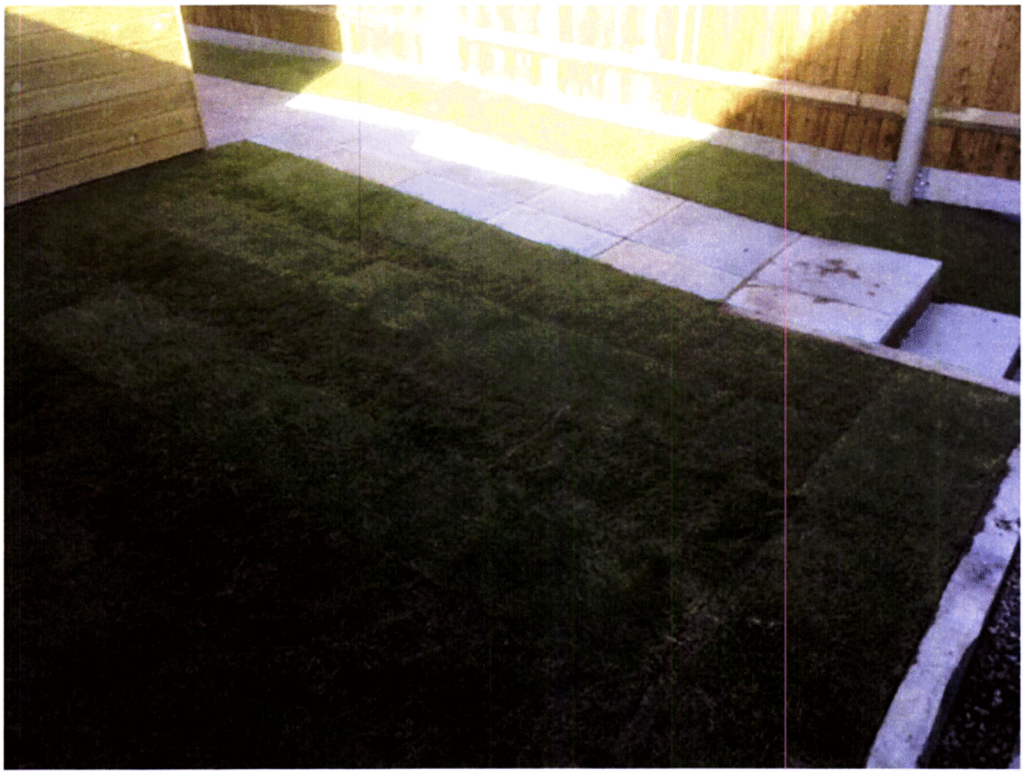


26th March 2019 – Plot 1 – watering newly laid turf

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26th March 2019 – Plot 2 – newly laid turf



26th March 2019 – front of northern plots

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26th March 2019 – northern plots – topsoil prepared prior to laying turf



26th March 2019 – northern plots – topsoil prepared prior to laying turf

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26th March 2019 – northern plots – topsoil prepared prior to laying turf



26th March 2019 – northern plots – topsoil prepared prior to laying turf

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APPENDIX 2 – VALIDATION SAMPLE LABORATORY ANALYSIS

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12 JUN 2019
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Envirolab Job Number: 18/01764
Client: Ridge and Partners Ltd
Client Project Name: Kingsclere Avenue, Havant
Client Project Ref: S18-0499

	Units	Method			
Lab Sample ID			18/01764/2	18/01764/3	18/01764/4
Client Sample No			VAL 2	VAL 3	VAL 4
Client Sample ID					
Depth to Top					
Depth to Bottom					
Date Sampled			06-Mar-18	06-Mar-18	06-Mar-18
Sample Type			Soil	Soil	Soil
Sample Matrix Code			6AE	6AE	6AE
Asbestos in Soil (inc. matrix)					
Asbestos in soil		A-T-045	NAD	NAD	NAD
Asbestos ACM - Suitable for Water Absorption Test?			N/A	N/A	N/A

DETS

UKAS TESTING
4480

Max Smeeth
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Winchester
SO23 7RX

DETS Ltd
Unit 1
Rose Lane Industrial Estate
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Lenham Heath
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t: 01622 850410
russell.jarvis@qtsenvironmental.com

DETS Report No: 18-74794

Site Reference:	Kingsclere Avenue
Project / Job Ref:	5006015
Order No:	5006015-815
Sample Receipt Date:	04/05/2018
Sample Scheduled Date:	04/05/2018
Report Issue Number:	1
Reporting Date:	11/05/2018

Authorised by:
[redacted]
Kevin Old
Associate Director of Laboratory

Authorised by:
[redacted]
Russell Jarvis
Associate Director of Client Services

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Tel : 01622 850410

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Soil Analysis Certificate							
DETS Report No: 18-74794	Date Sampled	02/05/18	02/05/18	02/05/18	02/05/18		
Ridge	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied		
Site Reference: Kingsclere Avenue	TP / BH No	VAL 6	VAL 7	VAL 8	VAL 9		
Project / Job Ref: 5006015	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied		
Order No: 5006015-815	Depth (m)	0.30	0.30	0.50	0.30		
Reporting Date: 11/05/2018	QTSE Sample No	332245	332246	332247	332248		

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

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

DETS

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t: 01622 850410
russell.jarvis@qtsenvironmental.com

DETS Report No: 18-76067

Site Reference:	Kingsclere Avenue
Project / Job Ref:	5006015
Order No:	5006015-815
Sample Receipt Date:	01/06/2018
Sample Scheduled Date:	01/06/2018
Report Issue Number:	1
Reporting Date:	07/06/2018

Authorised by:
[redacted]
Russell Jarvis
Associate Director of Client Services

Authorised by:
[redacted]
Dave Ashworth
Deputy Quality Manager

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Rose Lane
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Maidstone
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Tel : 01622 850410

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4480

Soil Analysis Certificate							
DETS Report No: 18-76067	Date Sampled	25/05/18	25/05/18				
Ridge	Time Sampled	None Supplied	None Supplied				
Site Reference: Kingsclere Avenue	TP / BH No	VAL 10	VAL 11				
Project / Job Ref: 5006015	Additional Refs	None Supplied	None Supplied				
Order No: 5006015-815	Depth (m)	0.40	0.40				
Reporting Date: 07/06/2018	QTSE Sample No	337467	337468				

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

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

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Unit 1, Rose Lane Industrial Estate
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Tel : 01622 850410

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 18-76067

Ridge

Site Reference: Kingsclere Avenue

Project / Job Ref: 5006015

Order No: 5006015-815

Reporting Date: 07/06/2018

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

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AR As Received

DETS Ltd
Unit 1, Rose Lane Industrial Estate
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Tel : 01622 850410

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 18-74794
Ridge
Site Reference: Kingsclere Avenue
Project / Job Ref: 5006015
Order No: 5006015-815
Reporting Date: 11/05/2018

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

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AR As Received

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APPENDIX 3 – STOCKPILE TESTING LABORATORY ANALYSIS

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DETS Report No: 18-83482

Site Reference:	Kingsclere Avenue
Project / Job Ref:	5006015
Order No:	5006015-815
Sample Receipt Date:	11/10/2018
Sample Scheduled Date:	11/10/2018
Report Issue Number:	1
Reporting Date:	17/10/2018

Authorised by:

[redacted]

Russell Jarvis
Associate Director of Client Services