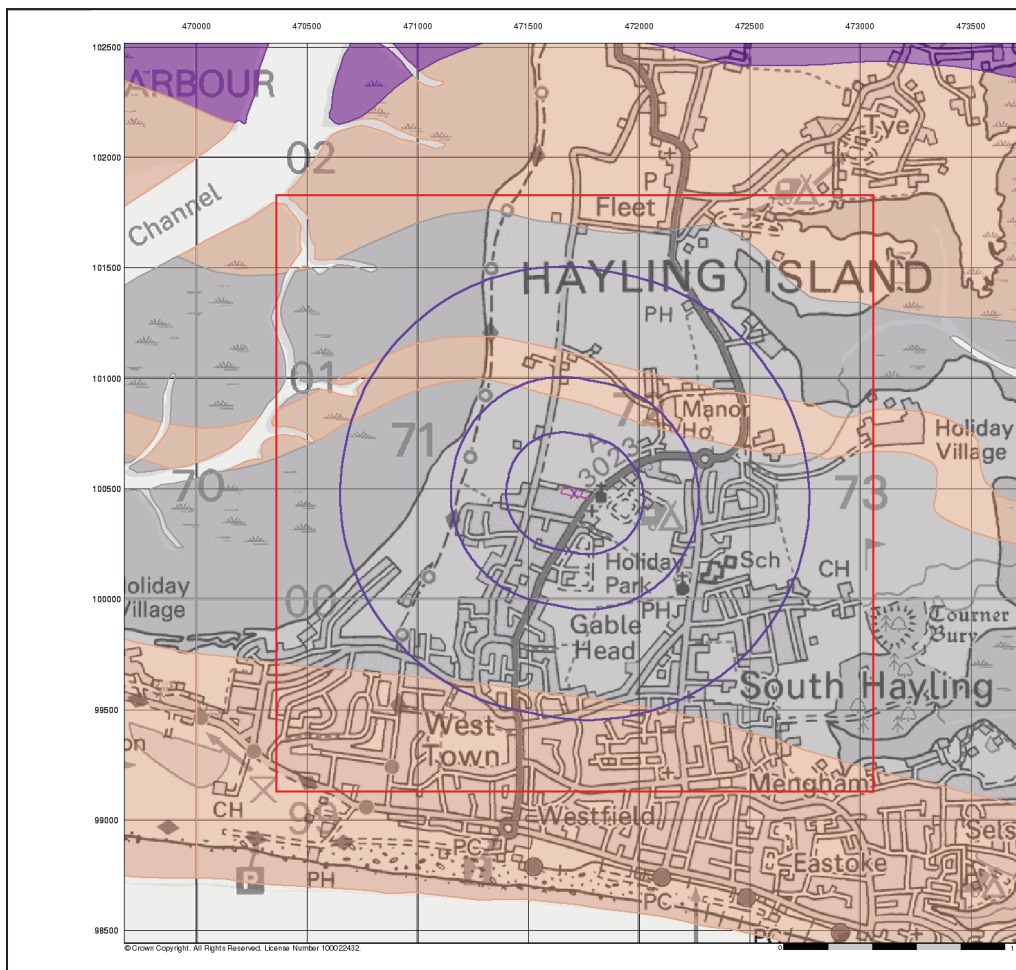




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Bedrock Aquifer Designation

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

Order Details

Order Number: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

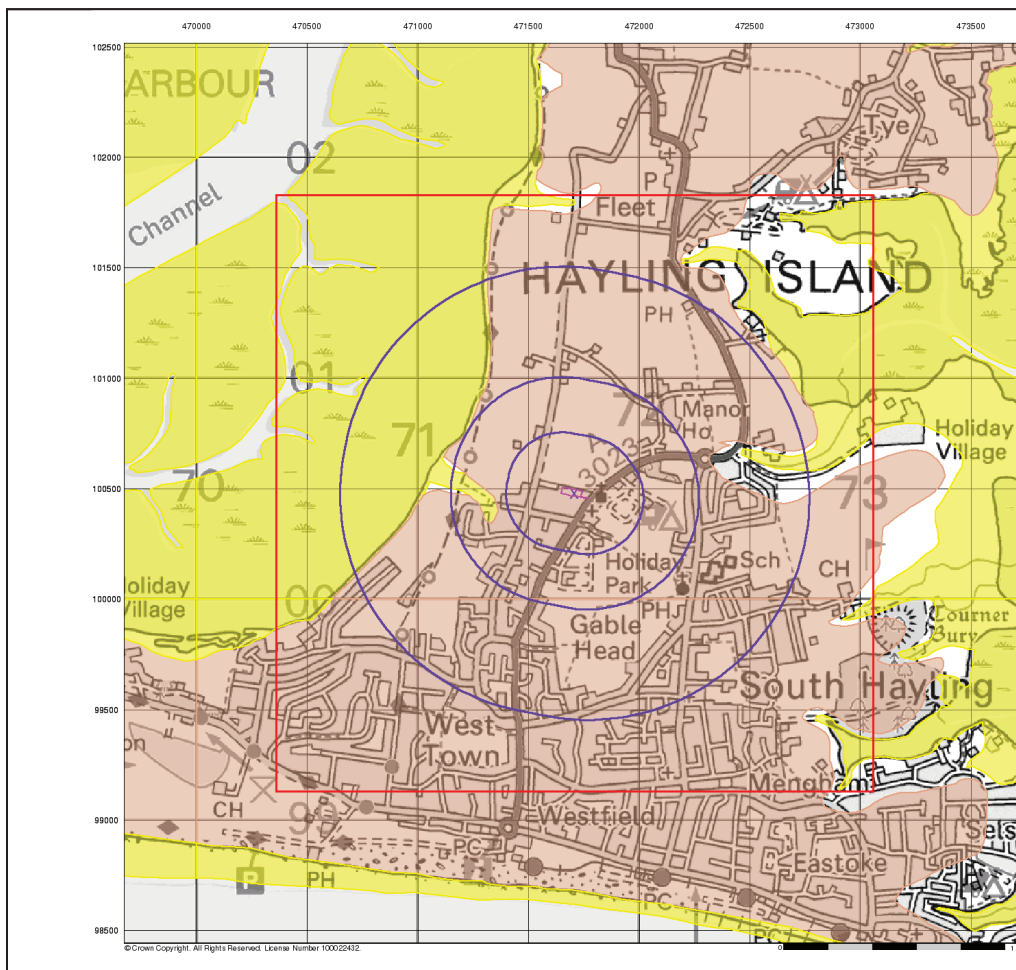
Site Details

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A Landmark Information Group Service v15.0 10-Sep-2018 Page 2 of 6



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Superficial Aquifer Designation

General

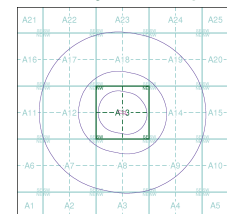
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

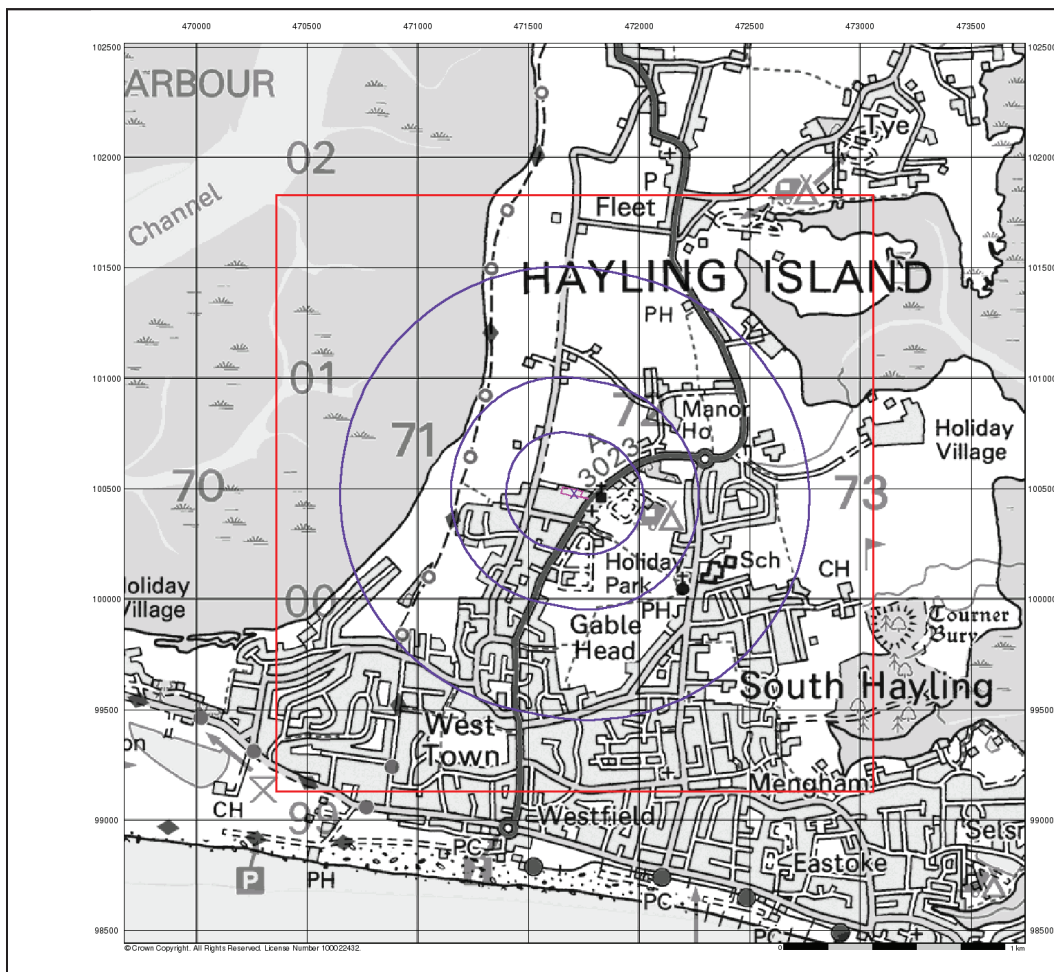
Site Details

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Source Protection Zones

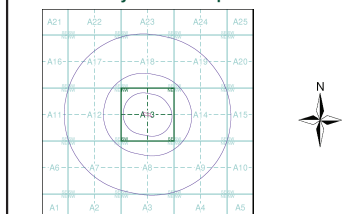
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

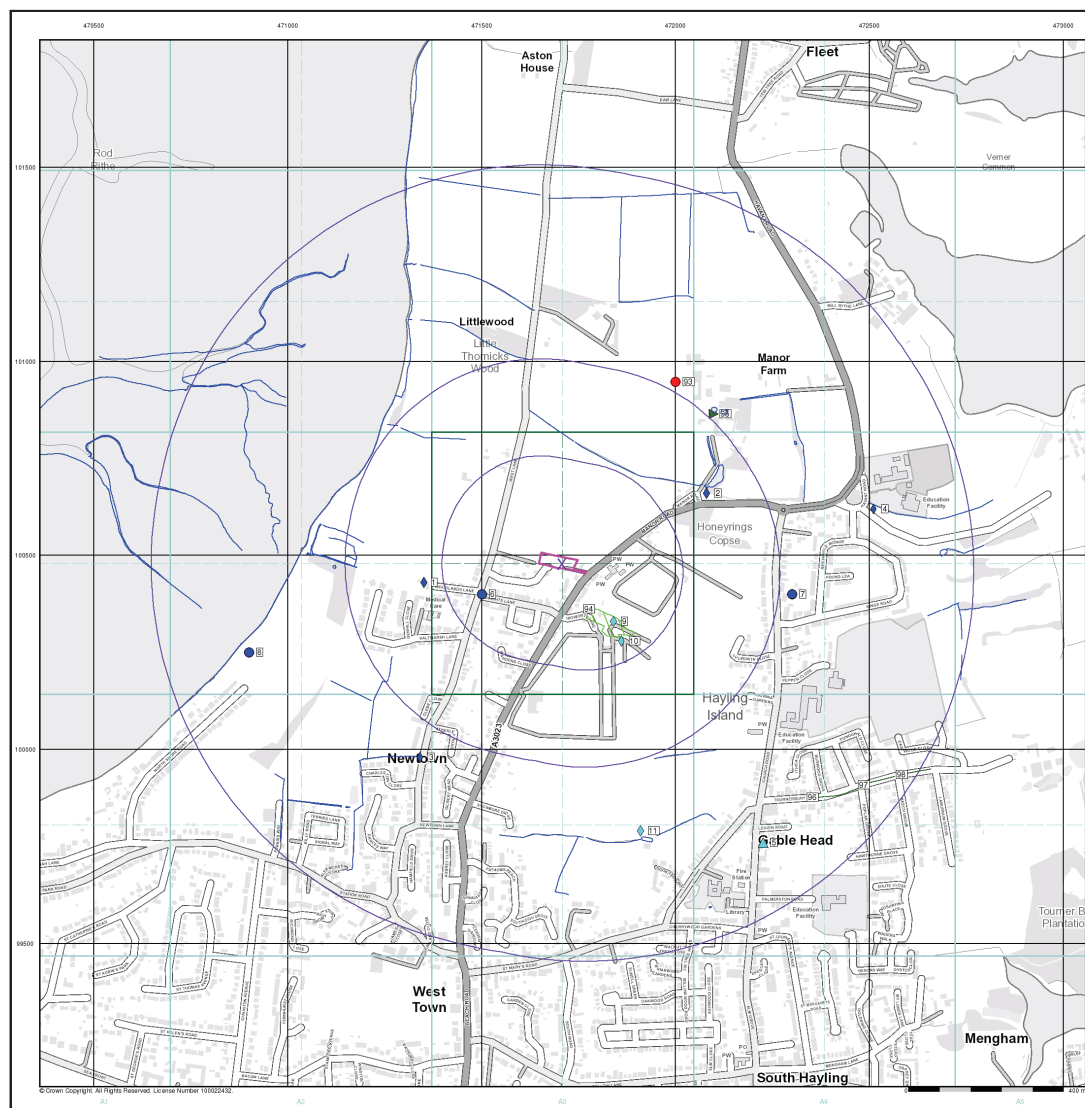
Order Number: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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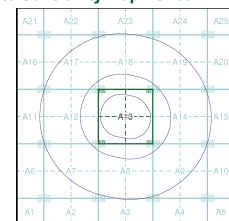
General

☒ Specified Site ☒ Specified Buffer(s) ☒ Bearing Reference Point ☒ Map ID

Agency and Hydrological

	Confined Landfill Registry Entry or Notice		DOG Recorded Landfill Site (Location)
	Confined Landfill Registry Entry or Notice		DOG Recorded Landfill Site
	Discharge Consent		EA Historic Landfill (Buried Row)
	Enforcement or Prohibition Notice		EA Historic Landfill (Physique)
	Integrated Pollution Control		Integrated Pollution Control Registered Waste Site
	Integrated Pollution Prevention Control		Integrated Waste Management Facility
	Local Authority Integrated Pollution Prevention and Control		Licensed Waste Management Facility (Location)
	Local Authority Pollution Prevention and Control		Licensed Waste Management Facility (Physique)
	Local Authority Pollution Prevention and Control Enforcement		Local Authority Recorded Landfill Site (Location)
	Prohibition Relating to Controlled Waters		Local Authority Recorded Landfill Site (Physique)
	Prosecution Relating to Controlled Waters		Potentially Infilled Landfill (Non-water)
	Prosecution Relating to Controlled Waters		Potentially Infilled Landfill (Non-water)
	Prosecution Relating to Controlled Waters		Potentially Infilled Landfill (Non-water)
	Registered Radioactive Substance		Potentially Infilled Landfill (Water)
	River Network or Water Feature		Potentially Infilled Landfill (Water)
	River Quality Sampling Point		Registered Landfill Site (Location)
	Substantiated Pollution Incident Register		Registered Landfill Site (Physique)
	Water Abstraction		Registered Landfill Site (Physique Buried to 10m)
	Water Abstraction		Registered Landfill Site (Physique Buried to 20m)
	Water Abstraction		Registered Waste Transfer Site (Location)
	Water Abstraction		Registered Waste Transfer Site (Physique)
	Water Abstraction		Registered Waste Treatment or Disposal Site (Location)
	Water Abstraction		Registered Waste Treatment or Disposal Site (Physique)
	Water Abstraction		Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

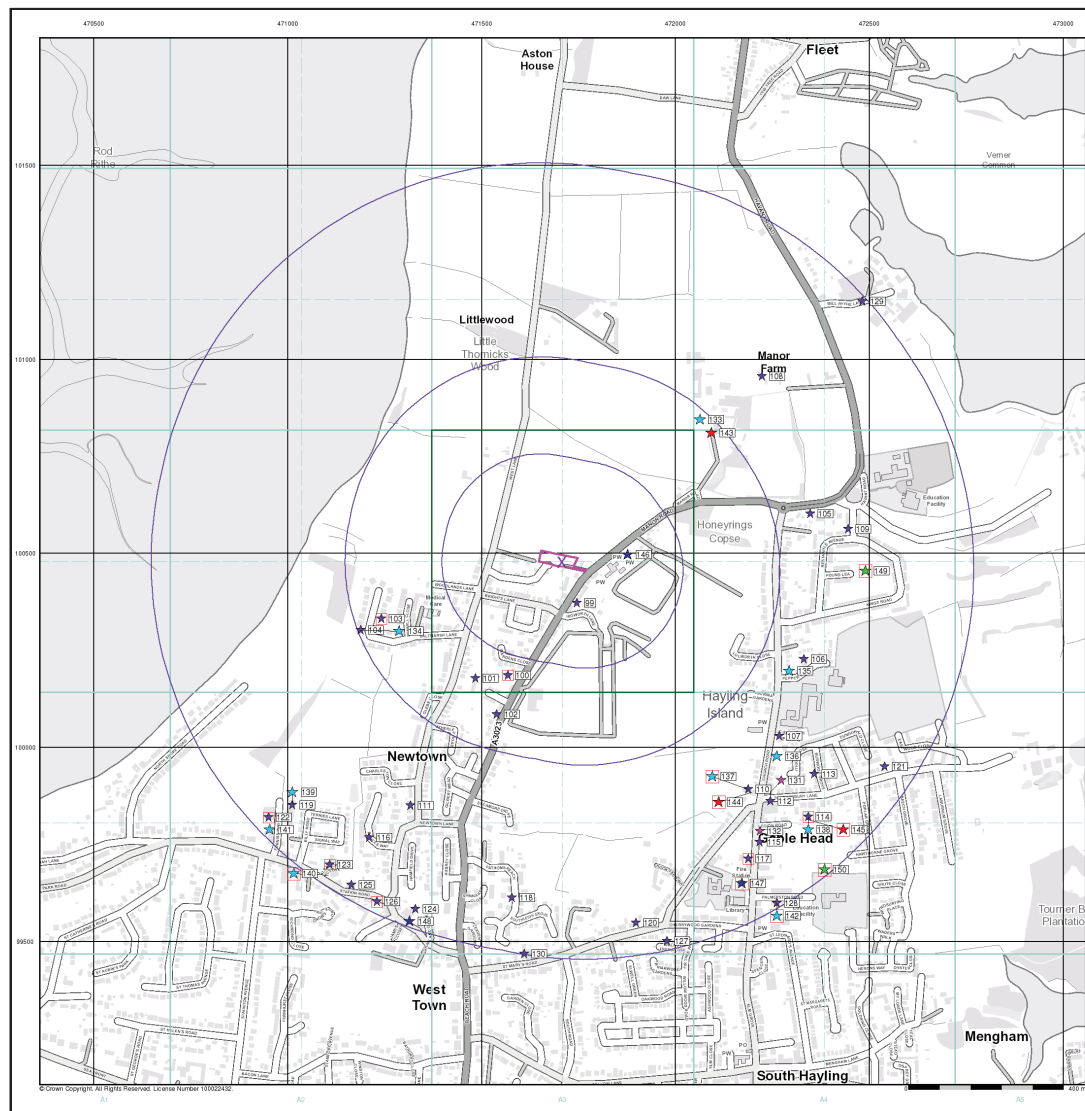
Order Number: 179337473_1_1
Customer Ref: DG667
National Grid Reference: 471710, 100480
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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Industrial Land Use Map

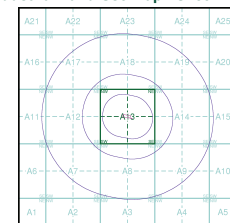
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

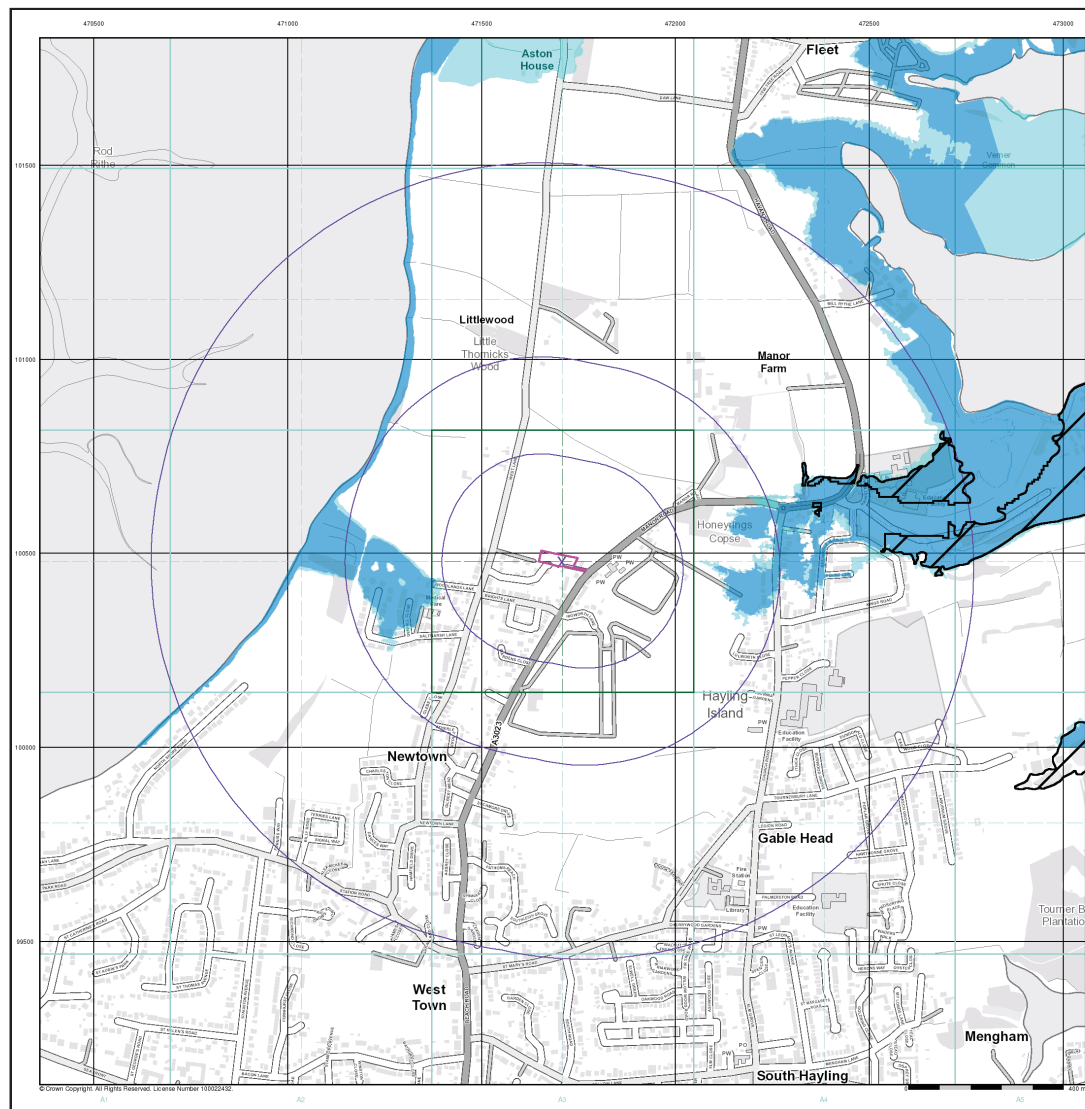
Order Number: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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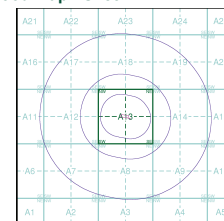
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

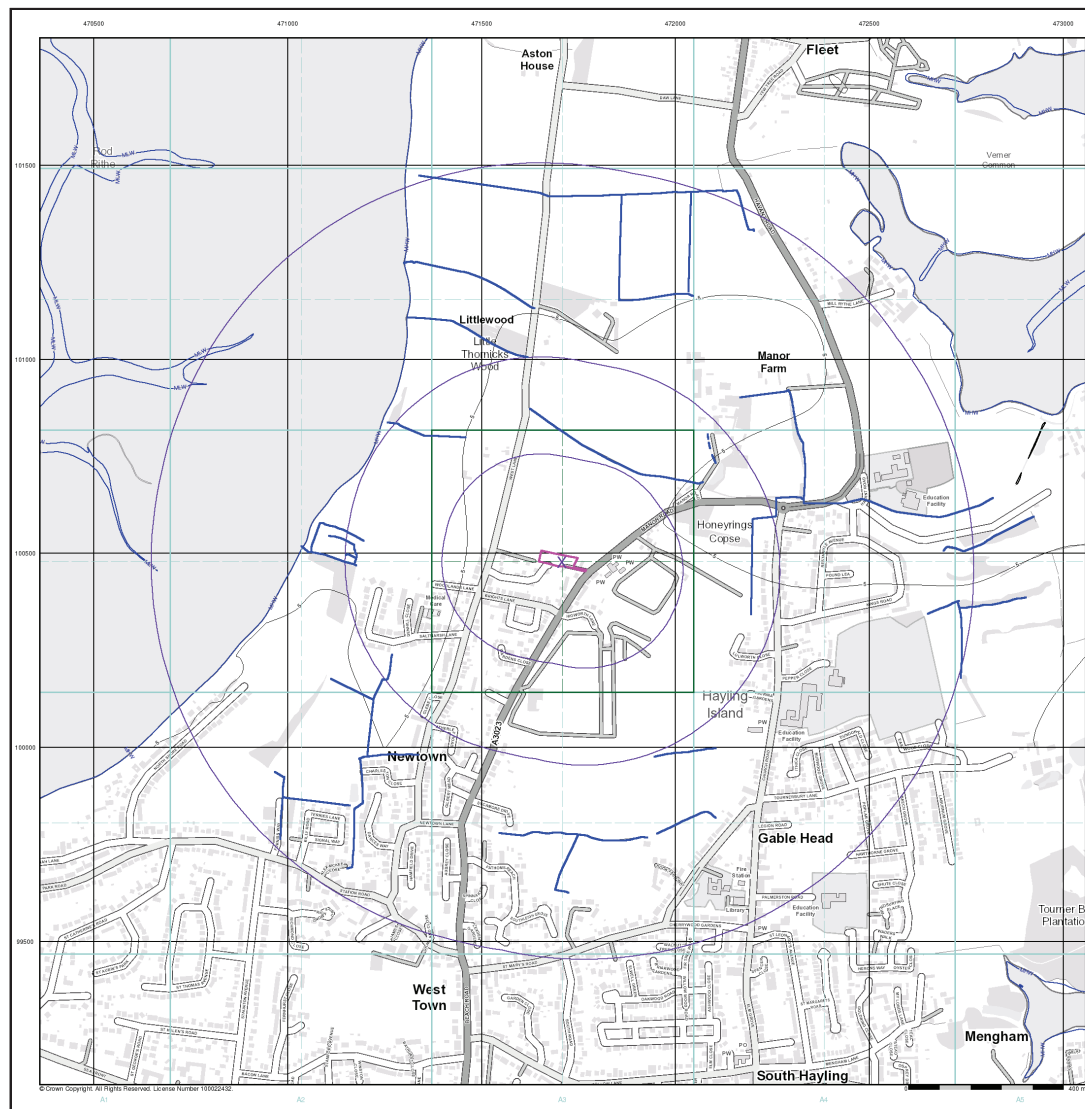
Order Number: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

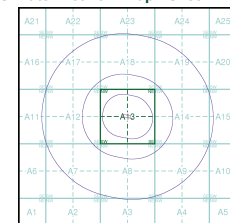
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour 5m 10m 15m
- Master Contour 10m 15m 20m
- Spot Height 100.0
- Mean Low Water
- Mean High Water

OS Water Network Map - Slice A



Order Details

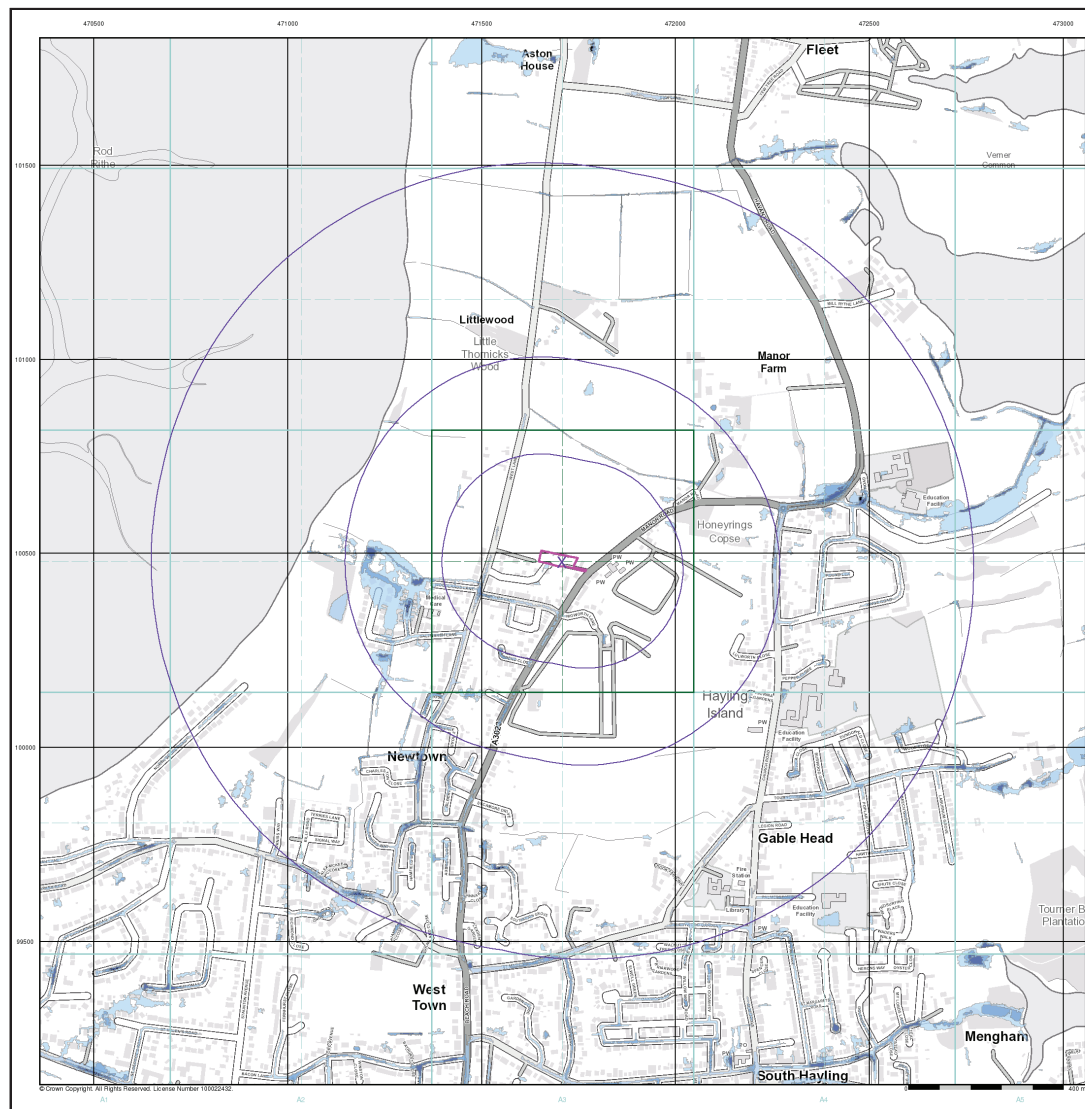
Order Number: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Risk of Flooding from Surface Water

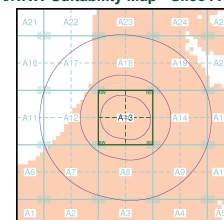
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

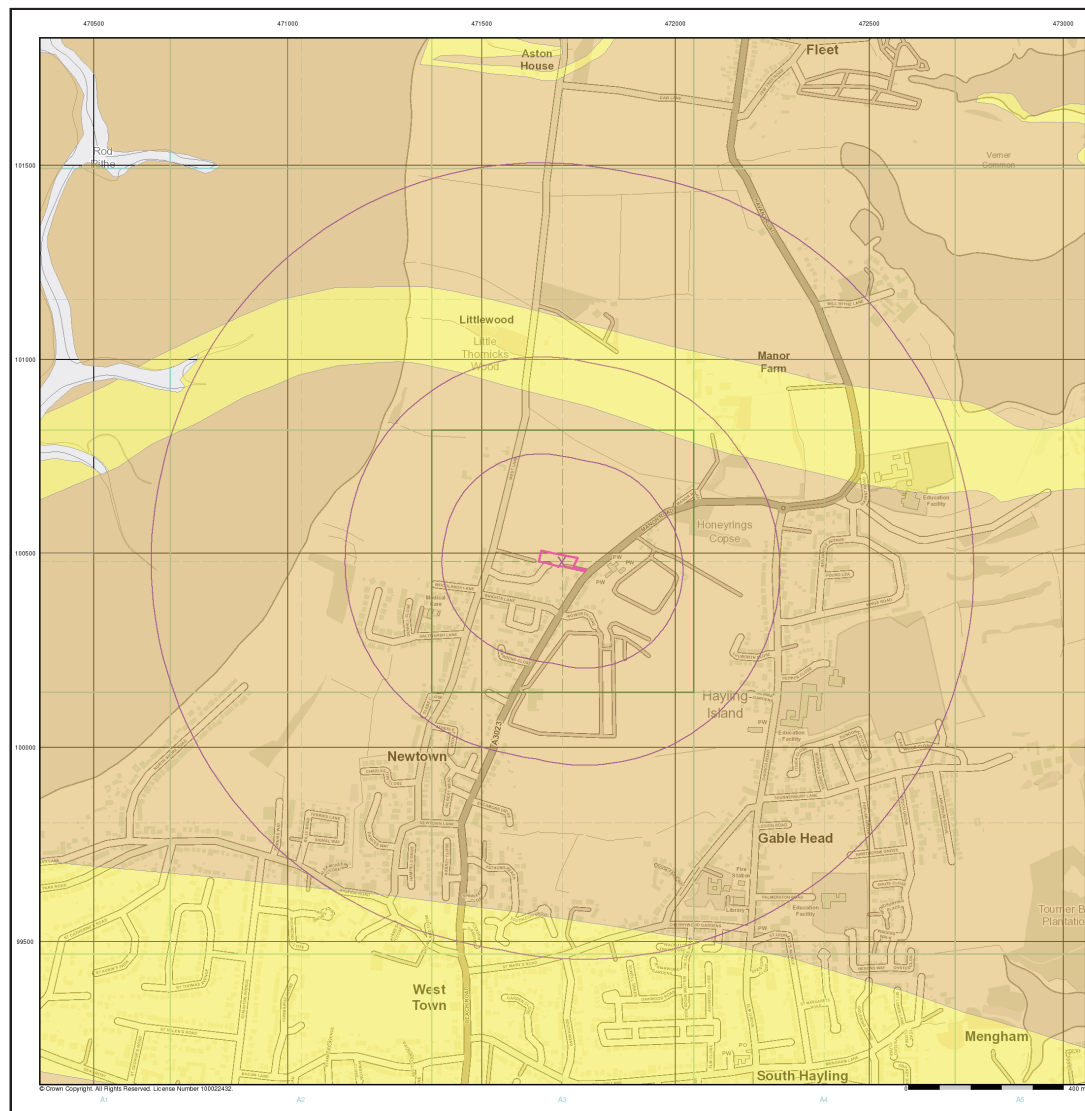
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 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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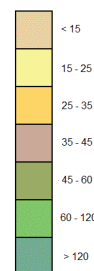
LANDMARK INFORMATION GROUP®

General

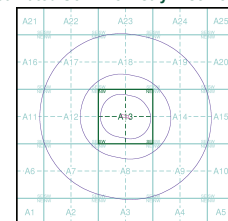
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

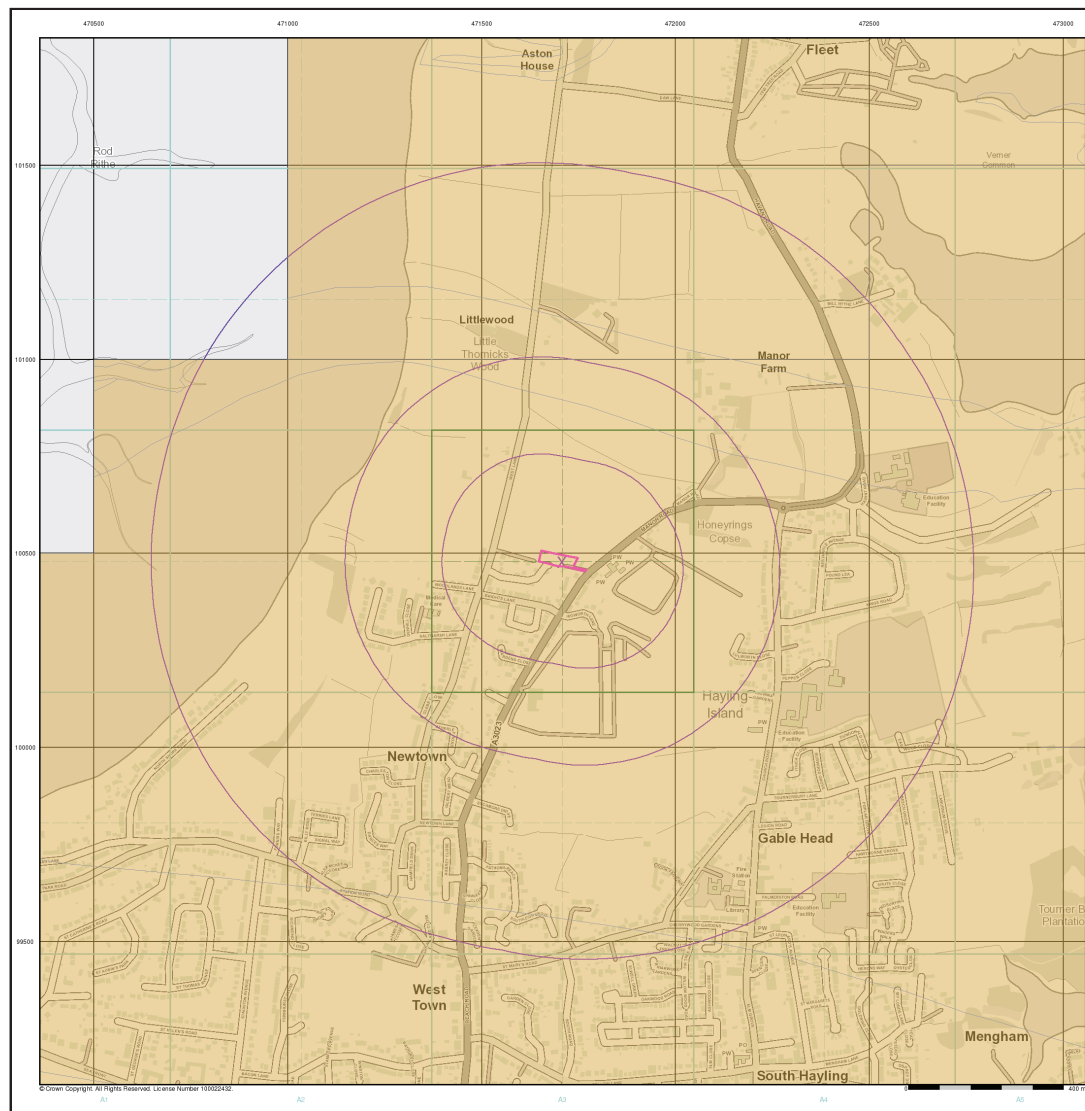
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Customer Ref: DG667
National Grid Reference: 471710, 100480
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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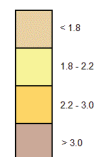
LANDMARK INFORMATION GROUP®

General

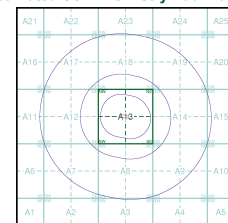
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

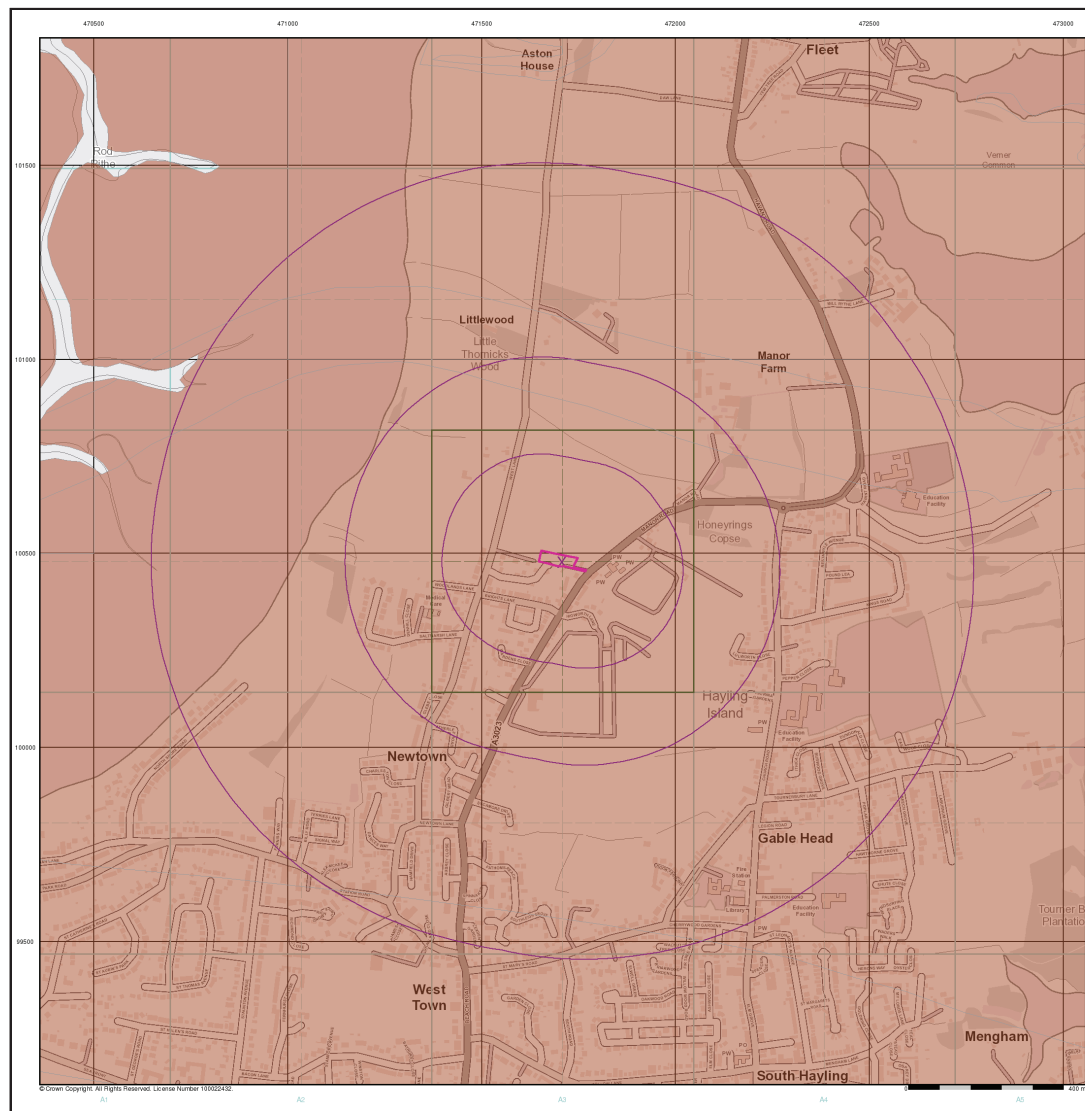
Order Details: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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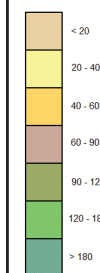
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General

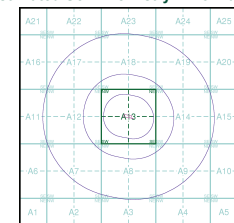
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

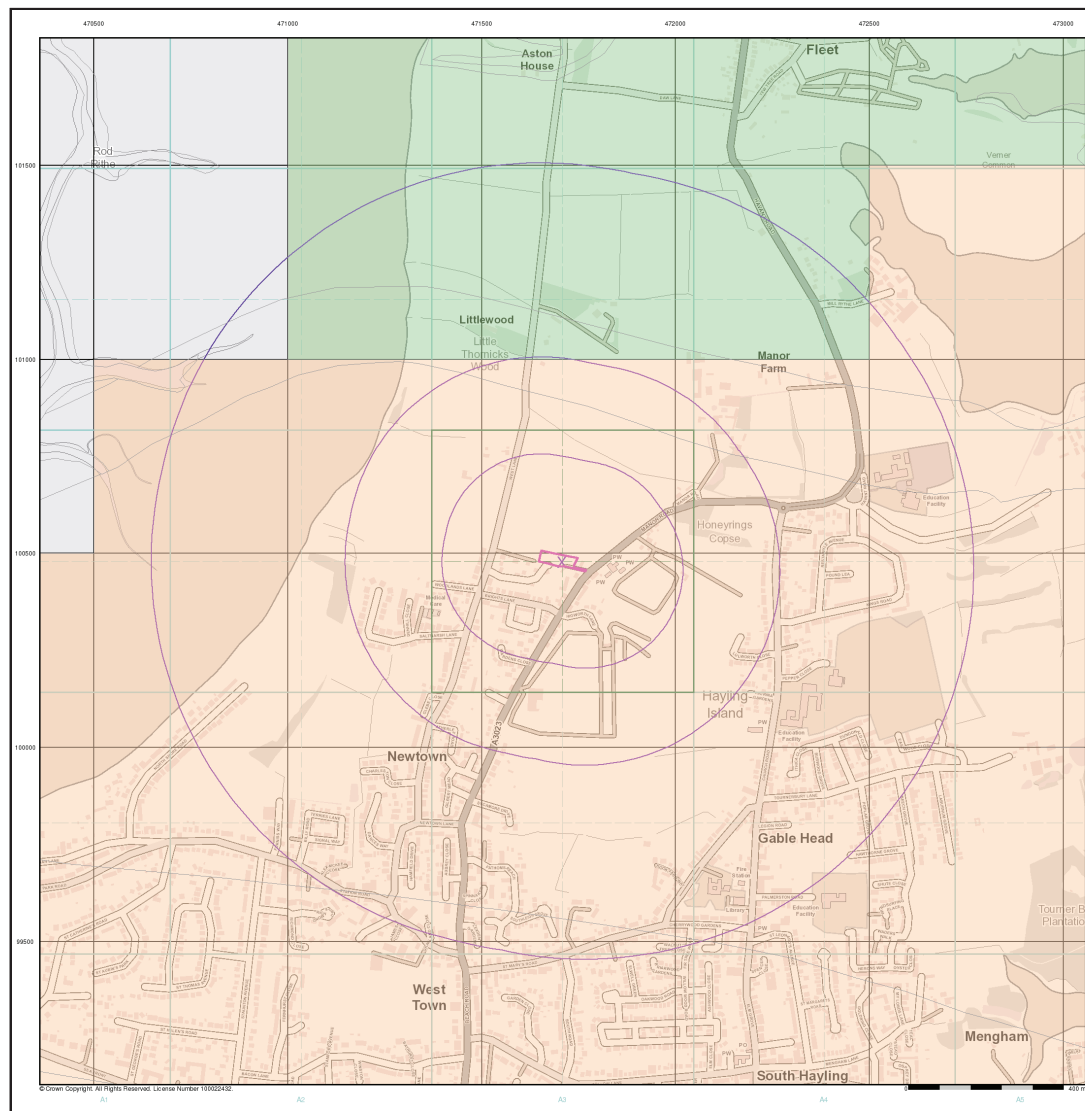
Order Details: 179337473_1_1
 Customer Ref: DG667
 National Grid Reference: 471710, 100480
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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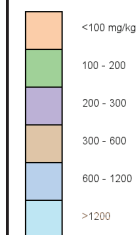
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General

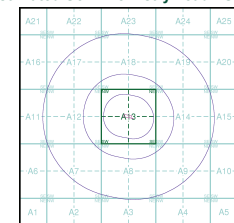
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

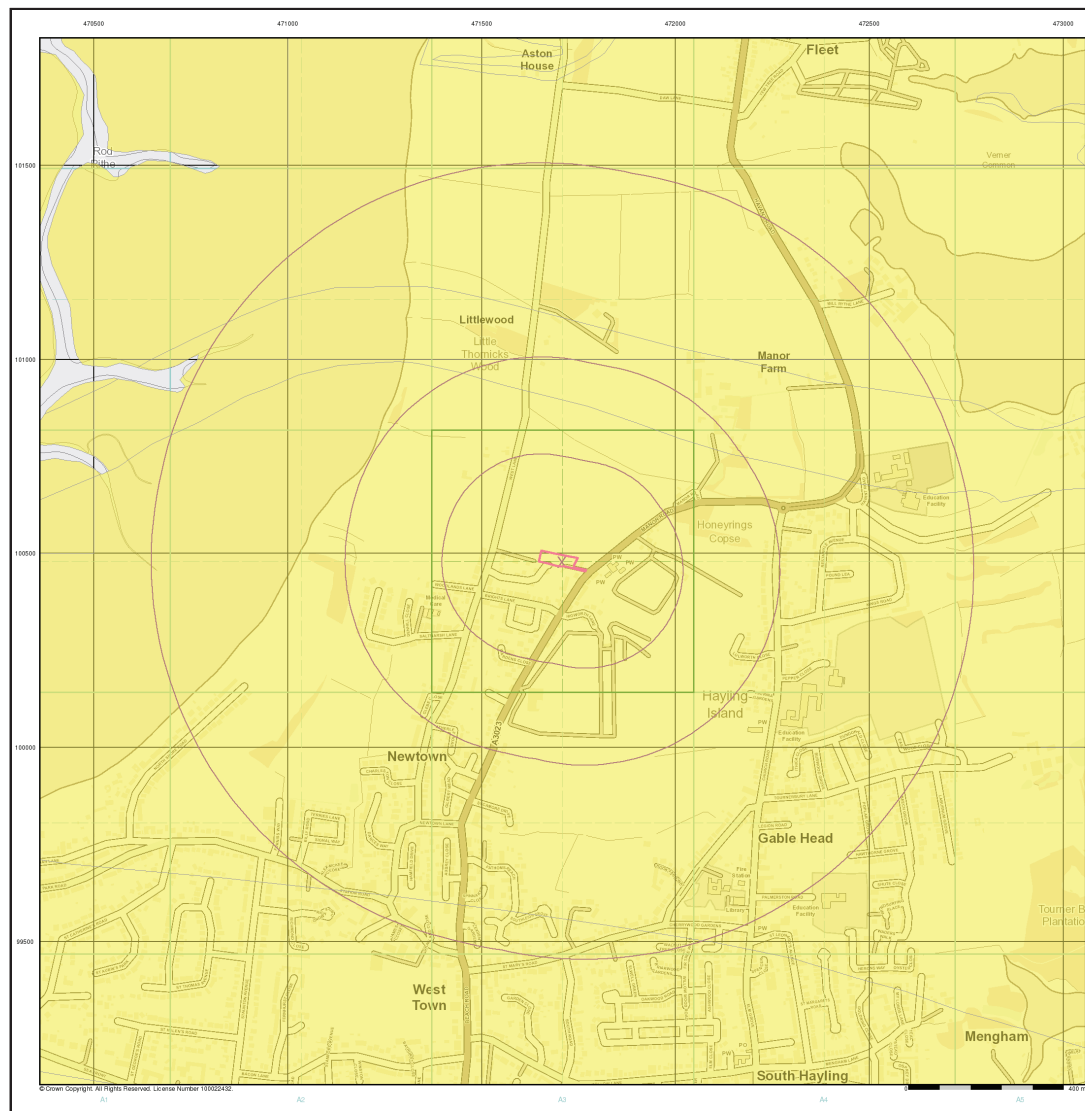
Order Details: 179337473_1_1
Customer Ref: DG667
National Grid Reference: 471710, 100480
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

Land to the rear, Manor Oaks, Manor Road, HAYLING ISLAND, PO11 0QL

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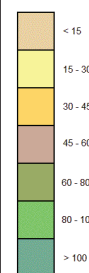
LANDMARK INFORMATION GROUP®

General

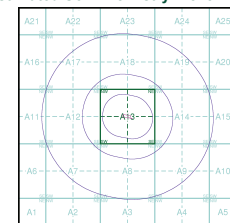
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

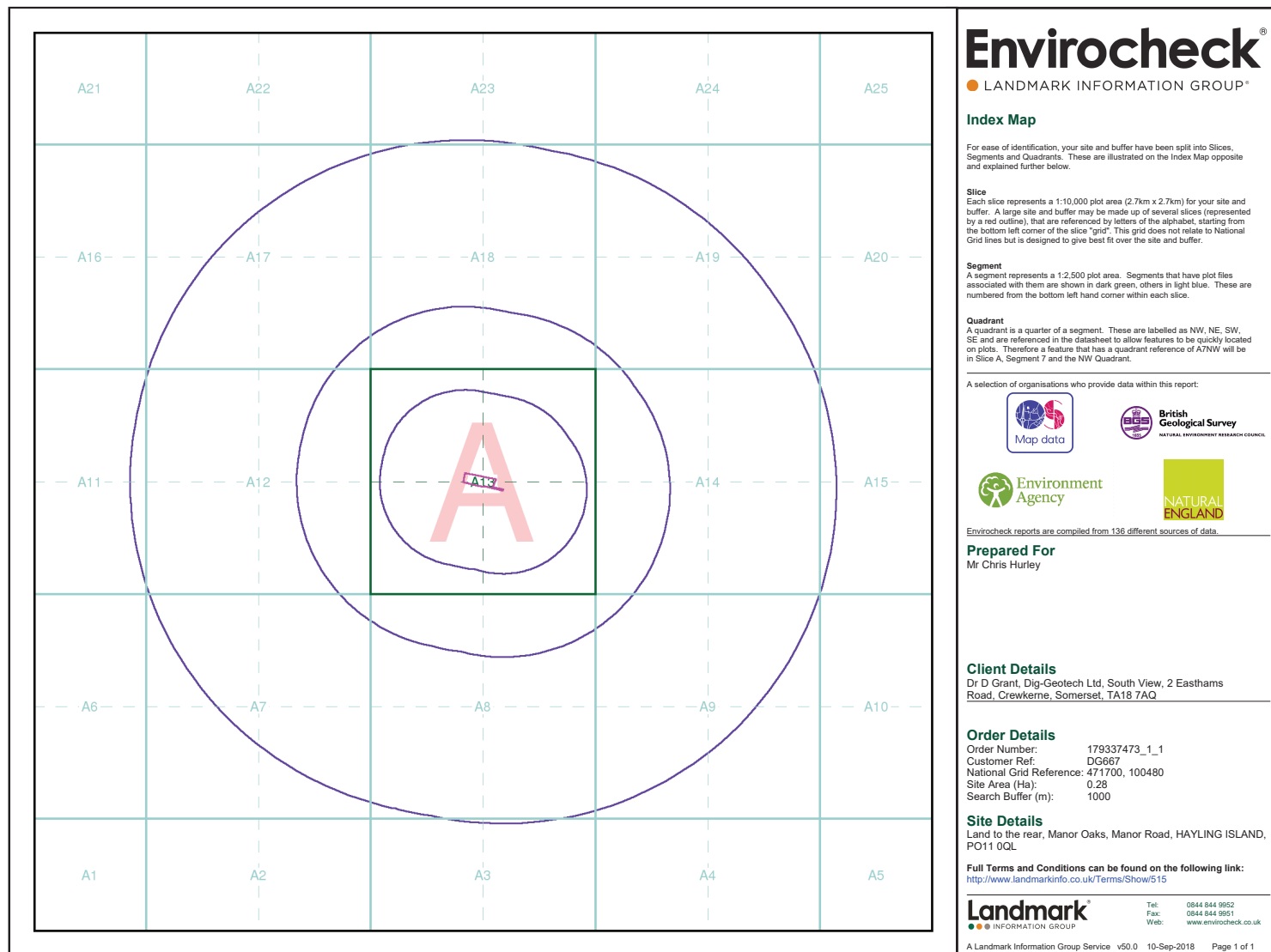
Order Details: 179337473_1_1
Customer Ref: DG667
National Grid Reference: 471710, 100480
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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Appendix D - Exploratory Hole Logs

				Trial Pit Log			Trialpit No TP01 Sheet 1 of 1	
Project Name: Manor Road Nurseries				Project No. 667		Co-ords: - Level:		Date 16/10/2018
Location: Hayling Island				Dimensions (m):		1 		Scale 1:25
Client: Mr Chris Hurley				Depth 1.05		0.3 		Logged
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.10		  	Brown friable silty TOPSOIL. Fine rootlets. Hard (desiccated), friable light brown SILT / CLAY. Rare fine gravel and fine rootlets.	
	0.50	ES		0.50			Firm, friable brown silty CLAY with rare fine gravel. Occasional to rare fine rootlets.	
	1.00	D		1.05			End of pit at 1.05 m	
	1.00	ES						
1 2 3 4 5								
Remarks: Damp at base								
Stability:								

				Trial Pit Log			Trialpit No TP02 Sheet 1 of 1	
Project Name: Manor Road Nurseries				Project No. 667		Co-ords: - Level:		Date 16/10/2018
Location: Hayling Island				Dimensions (m):		1.2 Scale 1:25		
Client: Mr Chris Hurley				Depth 1.00		0.3  Logged		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.10		 Firm, friable light brown CLAY. Fine rootlets. (TOPSOIL)		
	0.50	ES				 Firm brown CLAY with rare fine gravel. Occasional becoming rare fine rootlet.		
	1.00 1.00	D ES		1.00		 End of pit at 1.00 m		1
								2
								3
								4
								5
Remarks: Damp at base								
Stability:								

Appendix E - Laboratory Contamination Test Results



Dr David Grant
Dig-Geotech Limited
Southview
2 Easthams Road
Crewkerne
Somerset
TA18 7AQ

DETS Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410
russell.jarvis@qtsenvironmental.com

DETS Report No: 18-81313

Site Reference: Manor Road Nurseries, Hayling Island

Project / Job Ref: 667

Order No: 667/dq/001

Sample Receipt Date: 28/08/2018

Sample Scheduled Date: 28/08/2018

Report Issue Number: 1

Reporting Date: 03/09/2018

Authorised by:

Russell Jarvis
Associate Director of Client Services

Authorised by:

Dave Ashworth
Deputy Quality Manager



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate						
DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18	16/08/18	16/08/18	16/08/18
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP01	TP01	TP02	TP02
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 667/dg/001	Depth (m)	0.10	0.50	1.00	0.10	0.50
Reporting Date: 03/09/2018	QTSE Sample No	356617	356618	356619	356620	356621

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected			Not Detected	
pH	pH Units	N/a	MCERTS	7.1	7.4	7.8	7.3	7.2
Total Cyanide	mg/kg	< 2	NONE	8	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	NONE	702	444	< 200	358	< 200
Total Sulphate as SO ₄	%	< 0.02	NONE	0.07	0.04	< 0.02	0.04	< 0.02
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Organic Carbon (TOC)	%	< 0.1	MCERTS	6	2.1	0.6	0.9	0.4
Arsenic (As)	mg/kg	< 2	MCERTS	7	7	10	8	8
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	17	22	26	21	25
Copper (Cu)	mg/kg	< 4	MCERTS	25	19	14	13	11
Lead (Pb)	mg/kg	< 3	MCERTS	90	95	17	22	14
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	12	12	25	12	19
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3	< 3	< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	83	95	50	60	49
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
EPH (C10 - C40)	mg/kg	< 6	MCERTS	66		< 6	29	

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



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate					
DETS Report No: 18-81313	Date Sampled	16/08/18			
Dig-Geotech Limited	Time Sampled	None Supplied			
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP02			
Project / Job Ref: 667	Additional Refs	None Supplied			
Order No: 667/dg/001	Depth (m)	1.00			
Reporting Date: 03/09/2018	QTSE Sample No	356622			

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	7.3				
Total Cyanide	mg/kg	< 2	NONE	< 2				
Total Sulphate as SO ₄	mg/kg	< 200	NONE	< 200				
Total Sulphate as SO ₄	%	< 0.02	NONE	< 0.02				
Sulphide	mg/kg	< 5	NONE	< 5				
Total Organic Carbon (TOC)	%	< 0.1	MCERTS	0.7				
Arsenic (As)	mg/kg	< 2	MCERTS	10				
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2				
Chromium (Cr)	mg/kg	< 2	MCERTS	28				
Copper (Cu)	mg/kg	< 4	MCERTS	14				
Lead (Pb)	mg/kg	< 3	MCERTS	12				
Mercury (Hg)	mg/kg	< 1	NONE	< 1				
Nickel (Ni)	mg/kg	< 3	MCERTS	27				
Selenium (Se)	mg/kg	< 3	NONE	< 3				
Zinc (Zn)	mg/kg	< 3	MCERTS	49				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				
EPH (C10 - C40)	mg/kg	< 6	MCERTS	< 6				

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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Soil Analysis Certificate - Speciated PAHs

DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18	16/08/18	16/08/18	16/08/18
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP01	TP01	TP02	TP02
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 667/dg/001	Depth (m)	0.10	0.50	1.00	0.10	0.50
Reporting Date: 03/09/2018	QTSE Sample No	356617	356618	356619	356620	356621

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	0.14	0.17	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	0.13	0.14	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.12	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs

DETS Report No: 18-81313	Date Sampled	16/08/18				
Dig-Geotech Limited	Time Sampled	None Supplied				
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP02				
Project / Job Ref: 667	Additional Refs	None Supplied				
Order No: 667/dg/001	Depth (m)	1.00				
Reporting Date: 03/09/2018	QTSE Sample No	356622				

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	< 0.1			
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
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	< 0.1			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6			

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Soil Analysis Certificate - TPH LQM Banded						
DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18			
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied			
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP02			
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied			
Order No: 667/dg/001	Depth (m)	0.50	0.50			
Reporting Date: 03/09/2018	QTSE Sample No	356618	356621			

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3			
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	< 10	< 10			
Aliphatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10			
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	< 30	< 30			
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3			
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10			
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10			
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	< 30	< 30			
Total >C5 - C44	mg/kg	< 60	NONE	< 60	< 60			

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Soil Analysis Certificate - BTEX / MTBE							
DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18				
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied				
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP02				
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied				
Order No: 667/dg/001	Depth (m)	0.50	0.50				
Reporting Date: 03/09/2018	QTSE Sample No	356618	356621				

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

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Soil Analysis Certificate - Volatile Organic Compounds (VOC)					
DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18		
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied		
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP02		
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied		
Order No: 667/dg/001	Depth (m)	0.50	0.50		
Reporting Date: 03/09/2018	QTSE Sample No	356618	356621		

Determinand	Unit	RL	Accreditation			
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5	< 5	
Chloromethane	ug/kg	< 10	MCERTS	< 10	< 10	
Chloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
Bromomethane	ug/kg	< 10	MCERTS	< 10	< 10	
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
Chloroform	ug/kg	< 5	MCERTS	< 5	< 5	
Bromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10	< 10	
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
Trichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5	< 5	
Dibromomethane	ug/kg	< 5	MCERTS	< 5	< 5	
TAME	ug/kg	< 5	MCERTS	< 5	< 5	
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10	< 10	
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5	< 5	
Chlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2	< 2	
m,p-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	
o-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	
Styrene	ug/kg	< 5	MCERTS	< 5	< 5	
Bromoform	ug/kg	< 10	MCERTS	< 10	< 10	
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
Bromobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5	< 5	
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10	< 10	
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5	< 5	

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



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Soil Analysis Certificate - Organochlorine Pesticides						
DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18			
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied			
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP02			
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied			
Order No: 667/dg/001	Depth (m)	0.10	0.10			
Reporting Date: 03/09/2018	QTSE Sample No	356617	356620			

Determinand	Unit	RL	Accreditation				
Aldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
alpha-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
beta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
cis-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
delta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Dieldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Endosulfan A	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Endosulfan B	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Endrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
gamma-HCH (Lindane)	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Heptachlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Heptachlor epoxide	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Hexachlorobenzene (HCB)	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Isodrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Methoxychlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
o,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
o,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
o,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
p,p' - DDD	mg/kg	< 0.02	NONE	0.02	< 0.02		
p,p' - DDE	mg/kg	< 0.02	NONE	0.07	0.04		
p,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
trans-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02		
Trifluralin	mg/kg	< 0.02	NONE	< 0.02	< 0.02		

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Soil Analysis Certificate - Organophosphorus Pesticides						
DETS Report No: 18-81313	Date Sampled	16/08/18	16/08/18			
Dig-Geotech Limited	Time Sampled	None Supplied	None Supplied			
Site Reference: Manor Road Nurseries, Hayling Island	TP / BH No	TP01	TP02			
Project / Job Ref: 667	Additional Refs	None Supplied	None Supplied			
Order No: 667/dg/001	Depth (m)	0.10	0.10			
Reporting Date: 03/09/2018	QTSE Sample No	356617	356620			

Determinand	Unit	RL	Accreditation				
Azinphos-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Chlorfenvinphos, alpha	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Chlorfenvinphos, beta	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Chlorpyrifos-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Diazinon	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Dichlorvos	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Dimethoate	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Fenitrothion	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Fenthion	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Malathion	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Mevinphos, E	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Mevinphos, (Z)	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Parathion-ethyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Parathion-methyl	mg/kg	< 0.1	NONE	< 0.1	< 0.1		
Phorate	mg/kg	< 0.1	NONE	< 0.1	< 0.1		

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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 18-81313

Dig-Geotech Limited

Site Reference: Manor Road Nurseries, Hayling Island

Project / Job Ref: 667

Order No: 667/dg/001

Reporting Date: 03/09/2018

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
\$ 356617	TP01	None Supplied	0.10	14.8	Brown sandy clay with vegetation
\$ 356618	TP01	None Supplied	0.50	11.7	Brown sandy clay with vegetation
\$ 356619	TP01	None Supplied	1.00	12.8	Brown sandy clay with vegetation
\$ 356620	TP02	None Supplied	0.10	10.3	Brown sandy clay
\$ 356621	TP02	None Supplied	0.50	12.8	Brown sandy clay
\$ 356622	TP02	None Supplied	1.00	13	Brown sandy clay

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

Insufficient Sample ^{1/5}

Unsuitable Sample ^{U/5}

\$ samples exceeded recommended holding times



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 18-81313

Dig-Geotech Limited

Site Reference: Manor Road Nurseries, Hayling Island

Project / Job Ref: 667

Order No: 667/dg/001

Reporting Date: 03/09/2018

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

D Dried
AR As Received

Appendix F - Laboratory Geotechnical Test Results

[illegible]



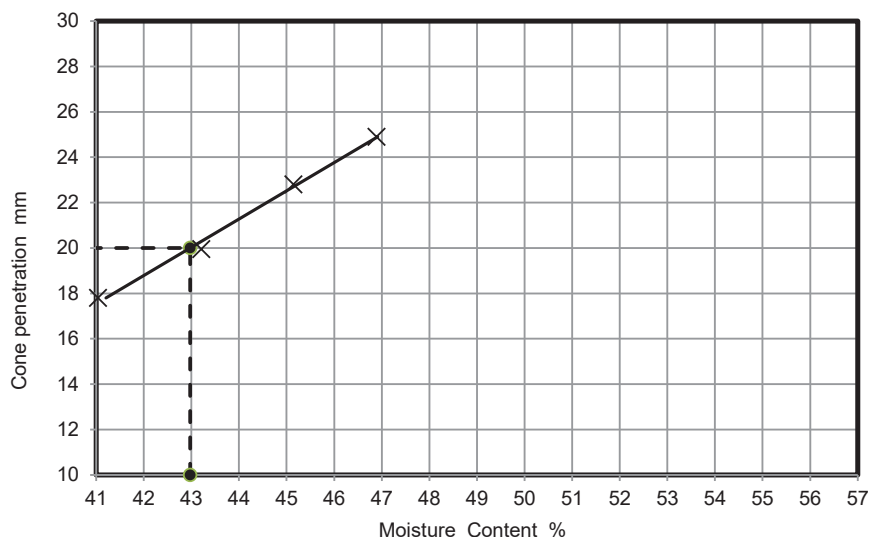
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	25104
Borehole/Pit No.	TP01
Sample No.	-
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	29/08/2018
Schedules received	28/08/2018
Project Started	30/08/2018
Date Tested	07/09/2018

Site Name: Manor Road Nurseries, Hayling Island

Project No.: DG667 Client: Dig-Geotech Ltd

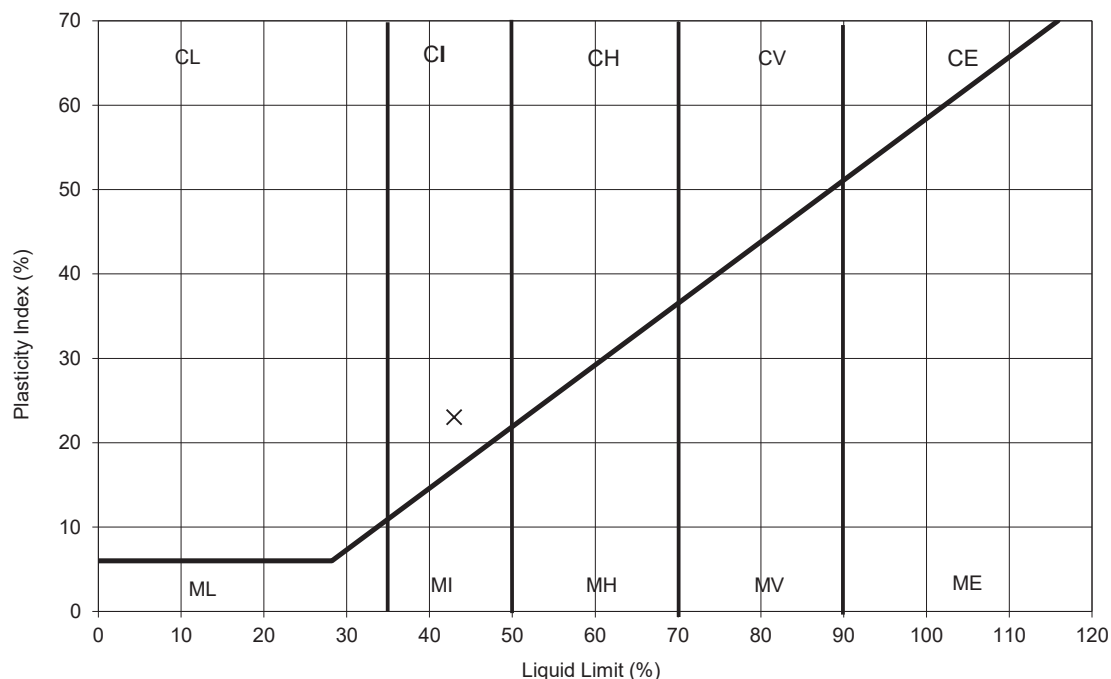
Soil Description: Orangish brown and yellowish brown sandy silty CLAY with rare fine gravel and fine roots



NATURAL MOISTURE CONTENT	17	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	43	%
PLASTIC LIMIT	20	%
PLASTICITY INDEX	23	%

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
 BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
 BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
 Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P
 Date: 10/09/2018

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





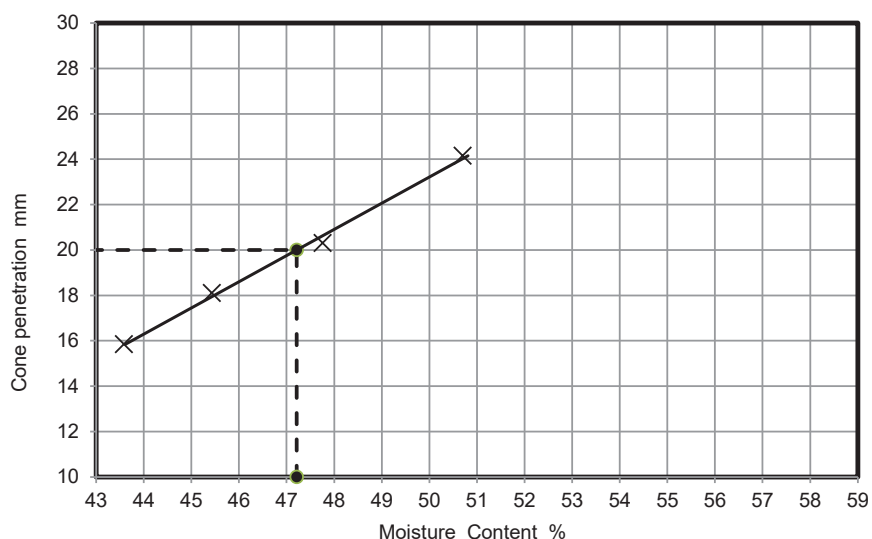
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	25104
Borehole/Pit No.	TP02
Sample No.	-
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	29/08/2018
Schedules received	28/08/2018
Project Started	30/08/2018
Date Tested	07/09/2018

Site Name: Manor Road Nurseries, Hayling Island

Project No.: DG667 Client: Dig-Geotech Ltd

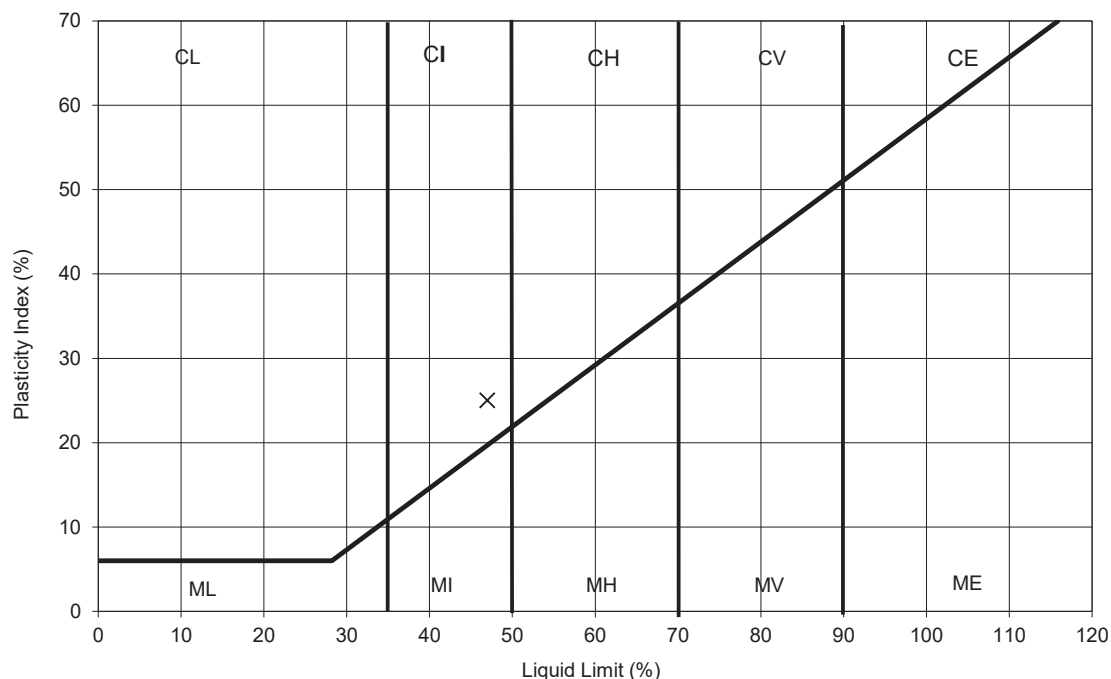
Soil Description: Orangish brown and yellowish brown sandy silty CLAY with rare fine gravel and fine roots



NATURAL MOISTURE CONTENT	17	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	47	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	25	%

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
 BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
 BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
 Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P
 Date: 10/09/2018

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results
Tested in accordance with BS1377 : Part 3 : 1990, clause 5.3 and clause 9

Job No.	Project Name	Programme	
25104	Manor Road Nurseries, Hayling Island	Samples received	29/08/2018
		Schedule received	28/08/2018
Project No.	Client	Project started	30/08/2018
DG667	Dig-Geotech Ltd	Testing Started	05/09/2018

[illegible]

Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials J.P

Date: 10/09/2018

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R29

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