Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

ES Appendix 15.2: Preliminary Ground Investigation Report (Part 2 of 2)

Report Prepared by: Hydrock

Document reference: 6.2.15.2

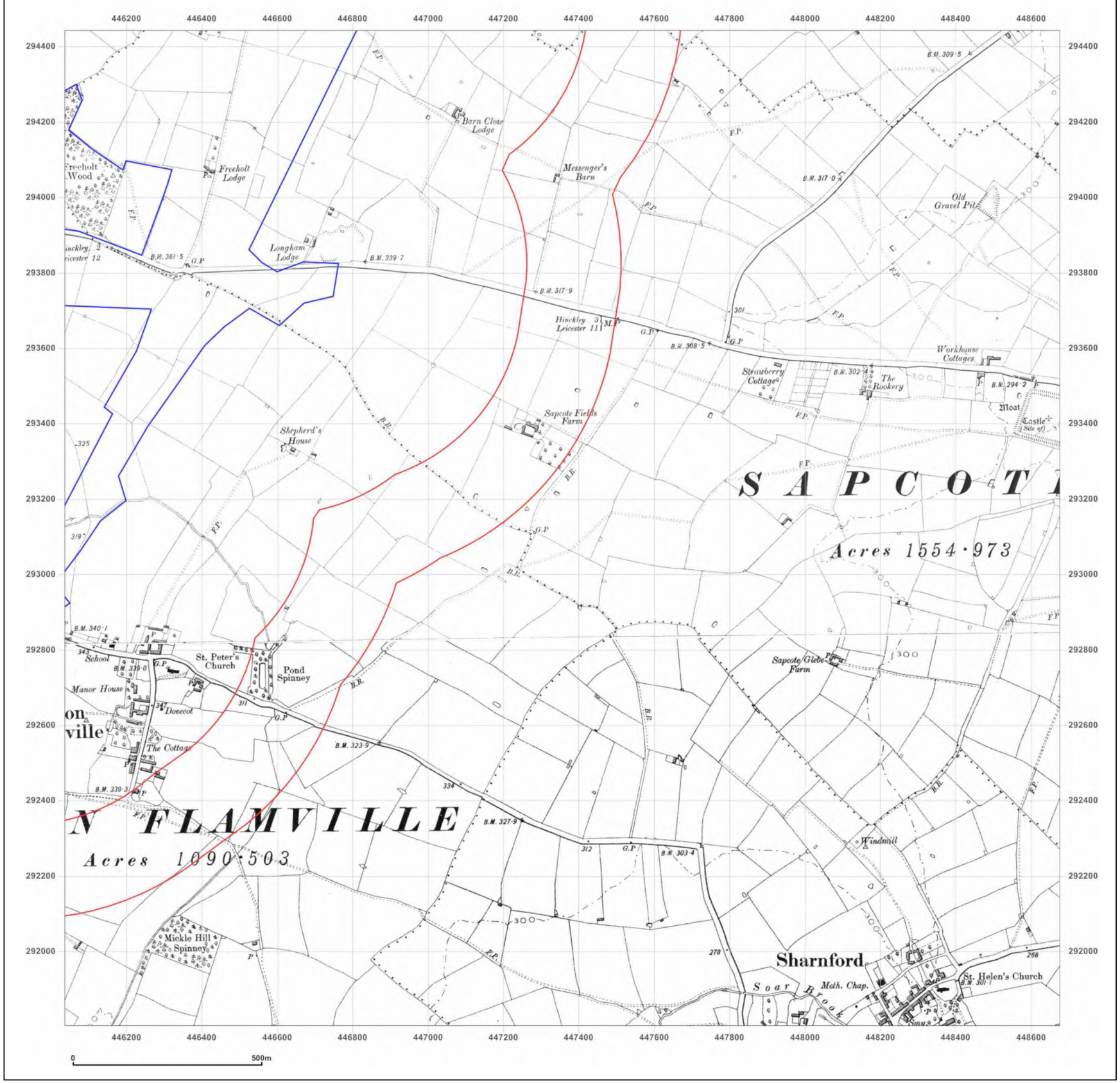
Revision: 01

June 2019

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 Regulation 14



Groundsure INSIGHTS

Site Details:

446123, 294825

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Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: County Series

Map date: **1901-1904**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Powered by

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

Map legend available at:
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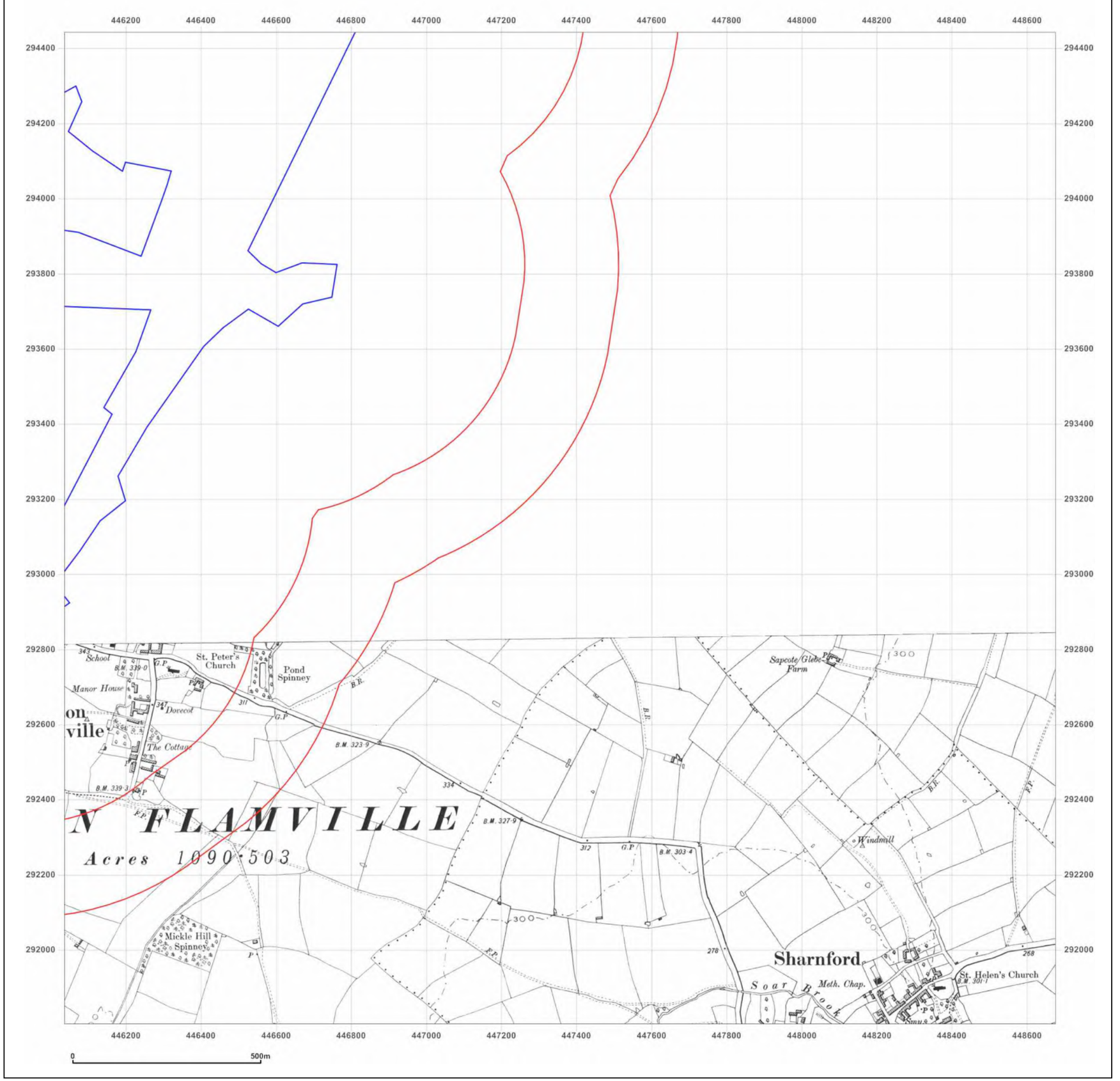

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Grid Ref: 447355, 293122

Map Name: County Series

Map date: **1904**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 30 January 2018

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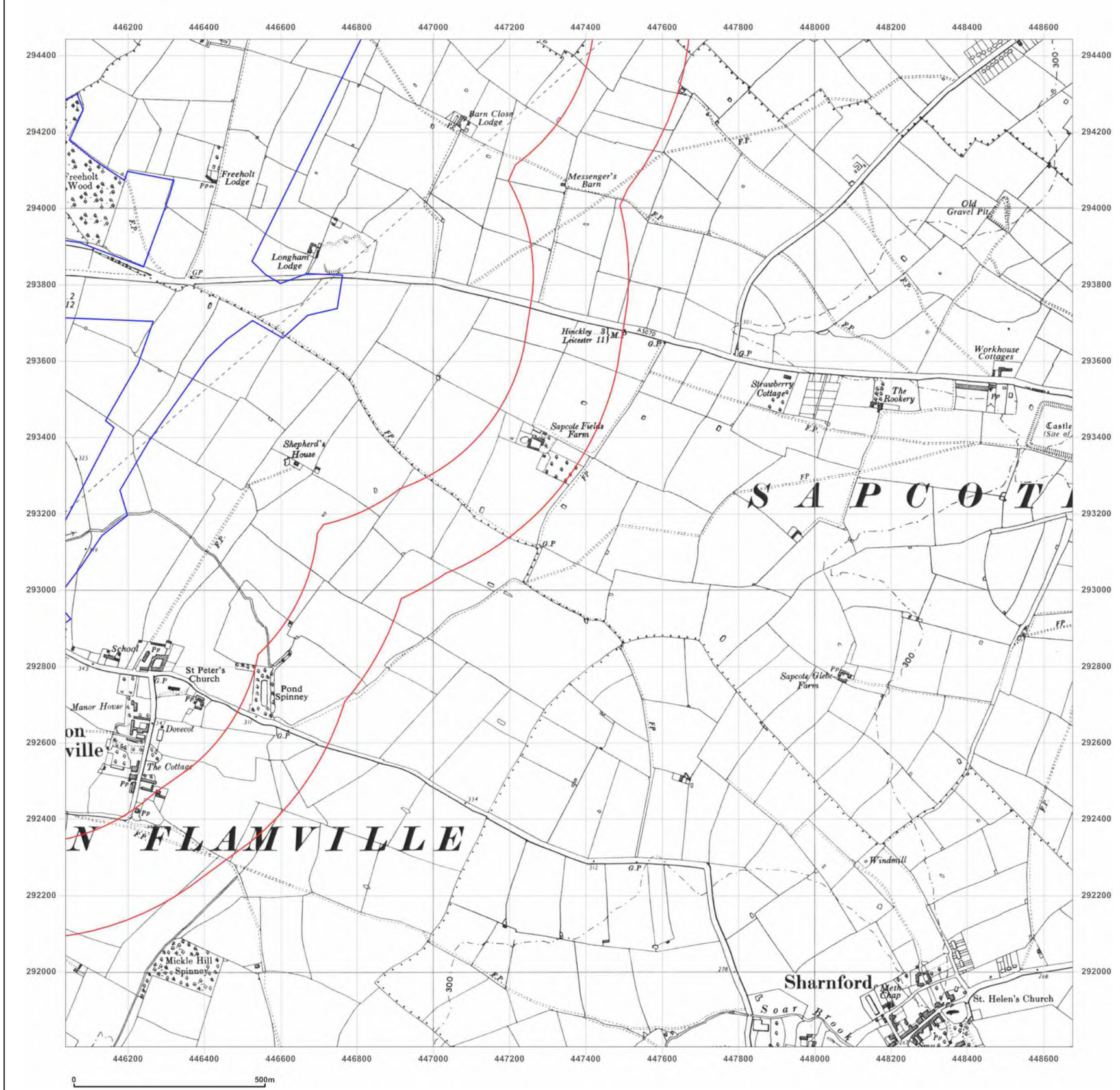

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Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: Provisional

Map date: **1955**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed N/A
Revised 1954
Edition 1955
Copyright N/A
Levelled N/A

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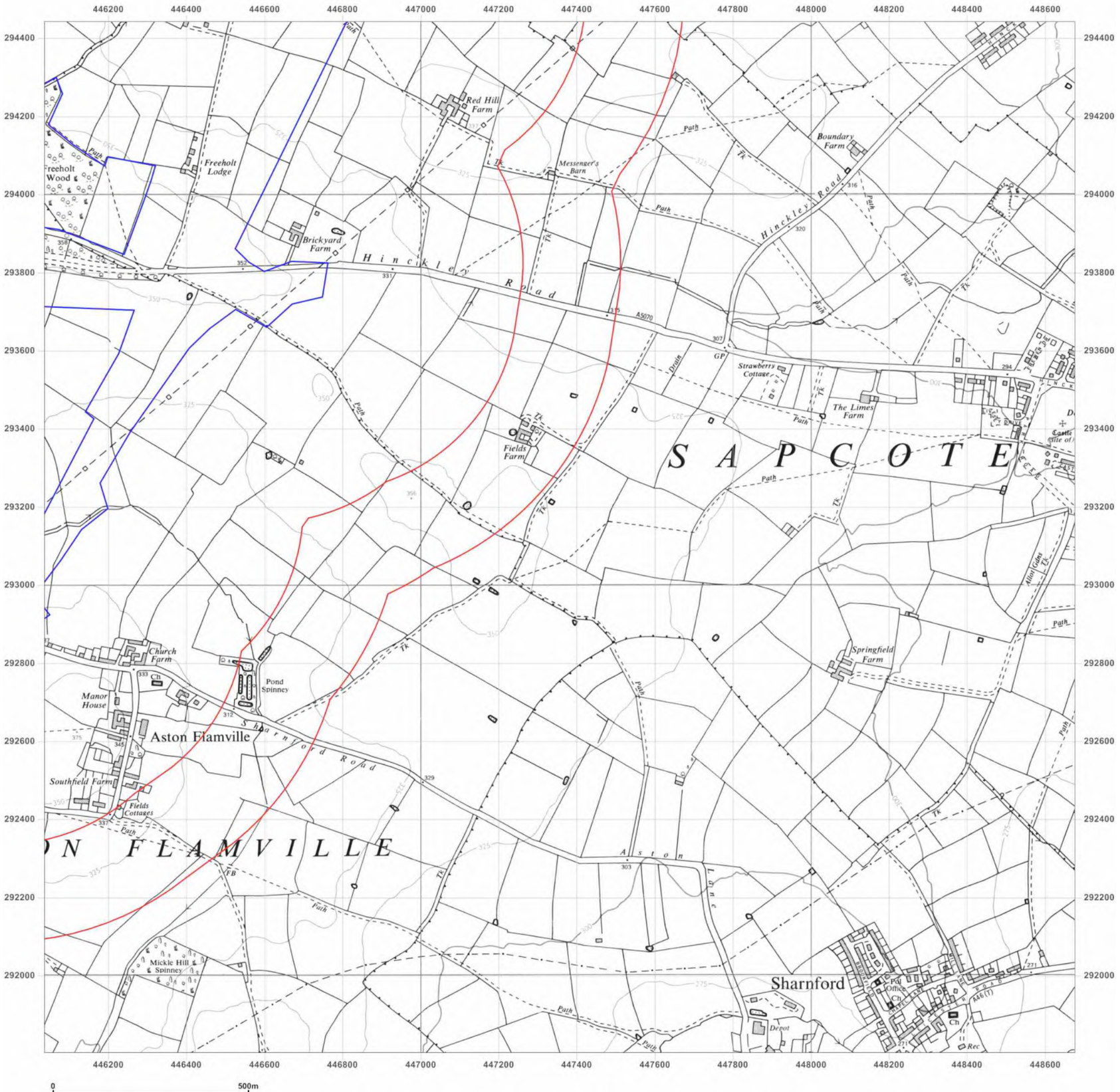

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Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: Provisional

Map date: **1968**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

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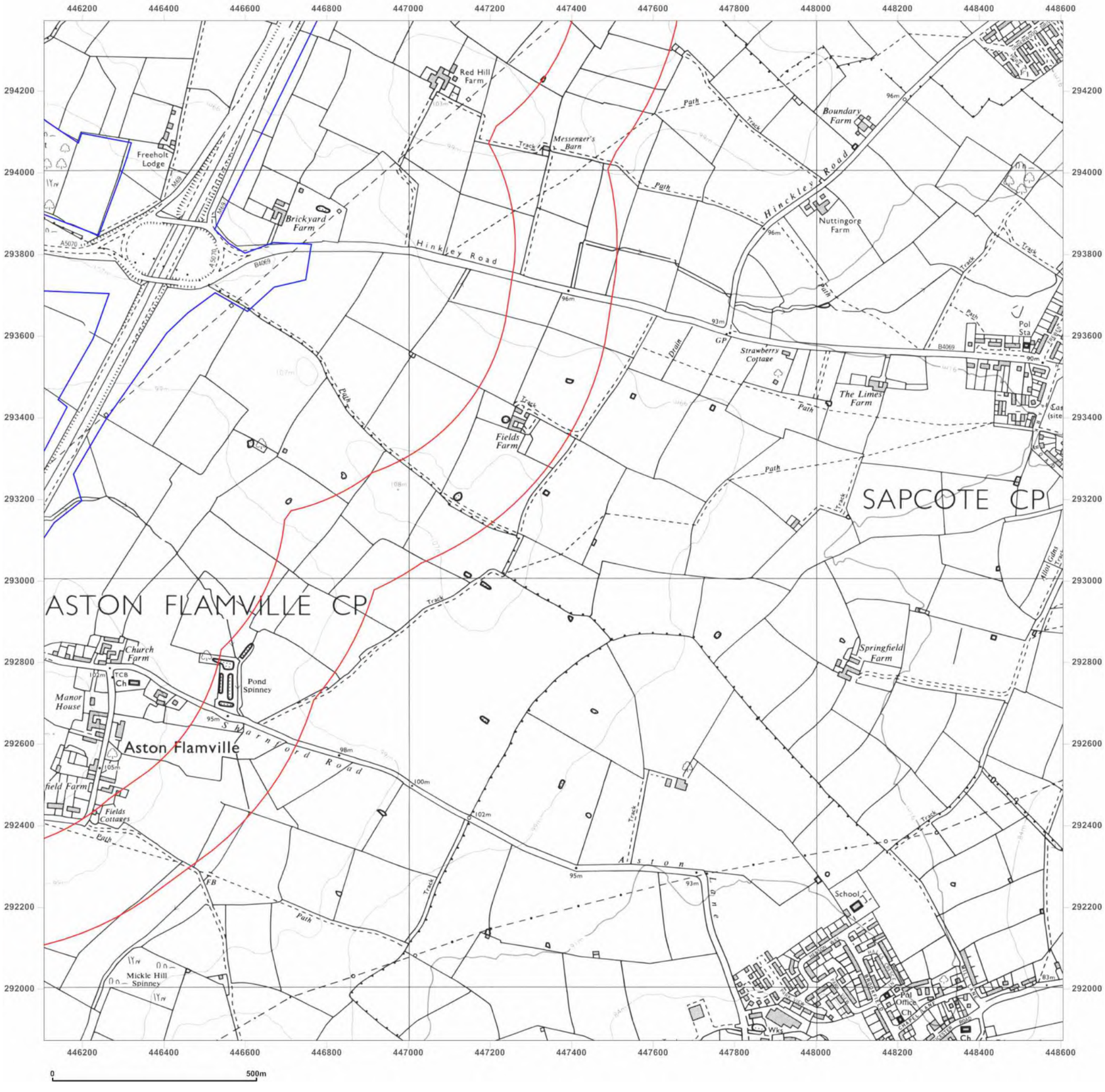

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Site Details:

446123, 294825

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Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: National Grid

Map date: **1979**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1976
Revised 1979
Edition N/A
Copyright 1979
Levelled 1965

Powered by OS

Produced by
Groundsure Insights
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E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

Map legend available at:
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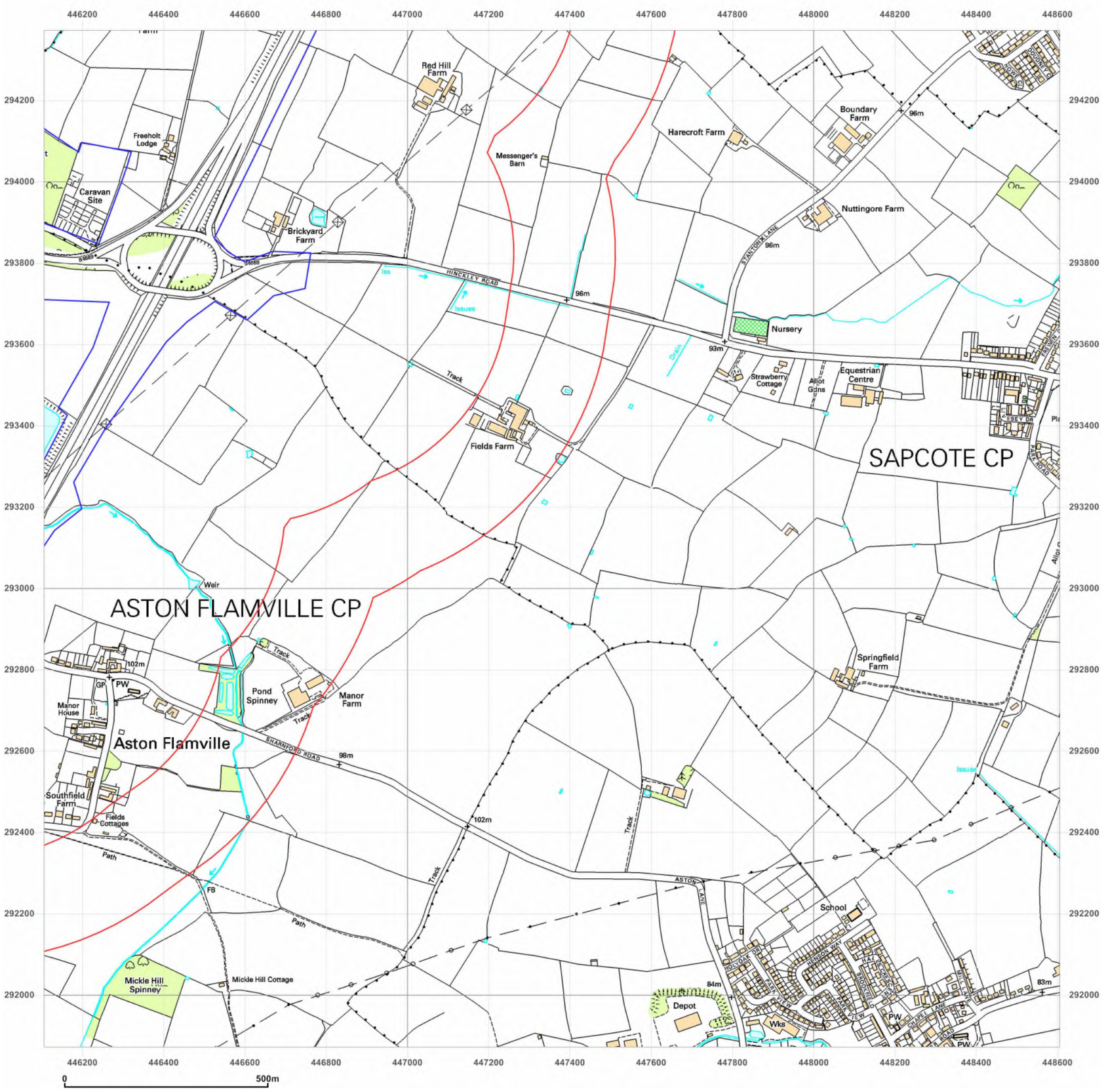

Groundsure INSIGHTS

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Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: 1:10,000 Raster
Map date: **2002**
Scale: 1:10,000
Printed at: 1:10,000

N
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2002

Powered by OS

Produced by
Groundsure Insights
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E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

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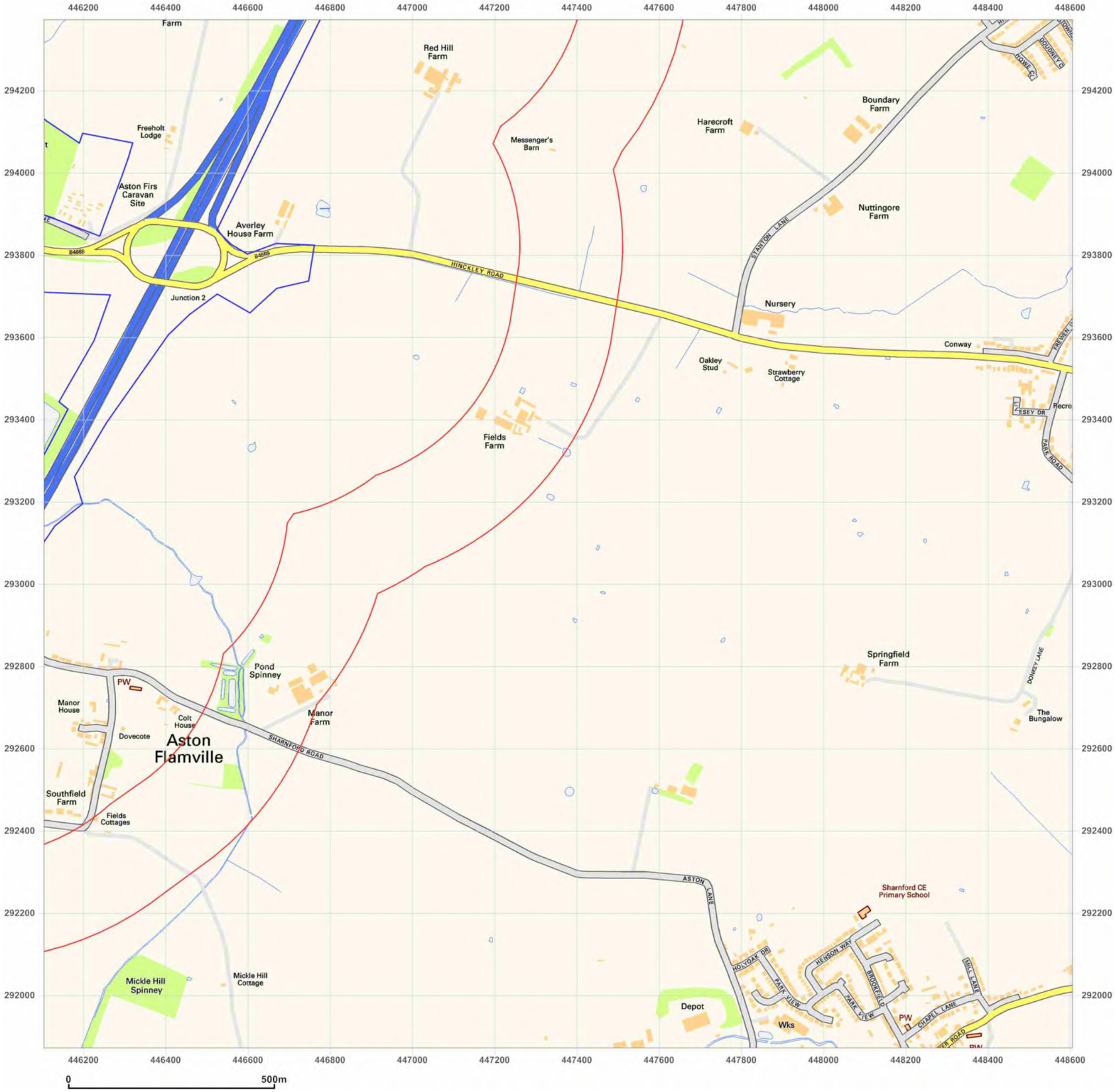

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Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
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2010

Powered by

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

Map legend available at:
[REDACTED]

Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_1
Grid Ref: 447355, 293122

Map Name: National Grid

Map date: **2014**

Scale: 1:10,000

Printed at: 1:10,000

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2014

Powered by

Produced by
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E: info@groundsure.com
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Production date: 30 January 2018

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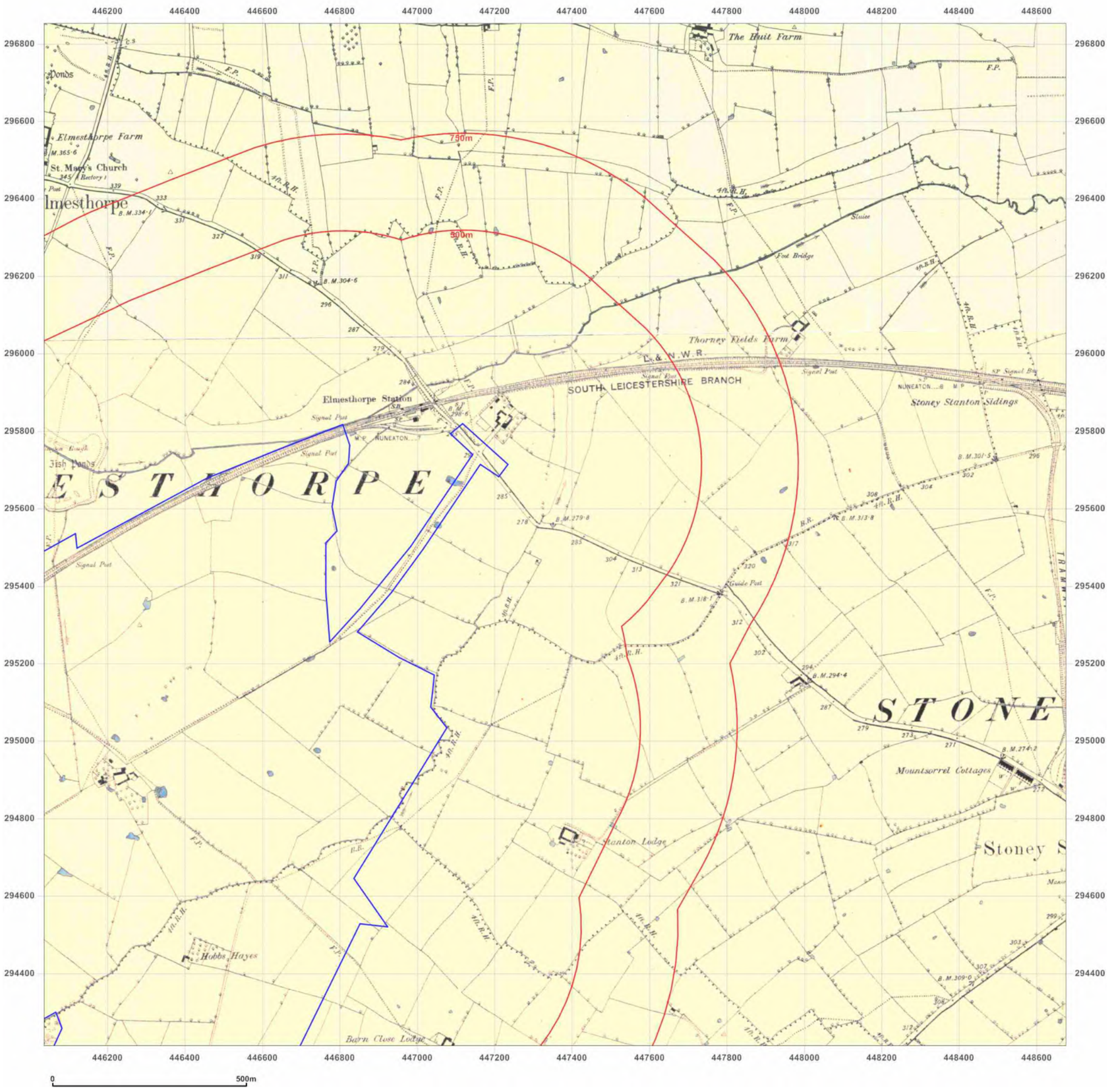

Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: County Series

Map date: **1886**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Powered by

Produced by
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T: 08444 159000
E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

Map legend available at:
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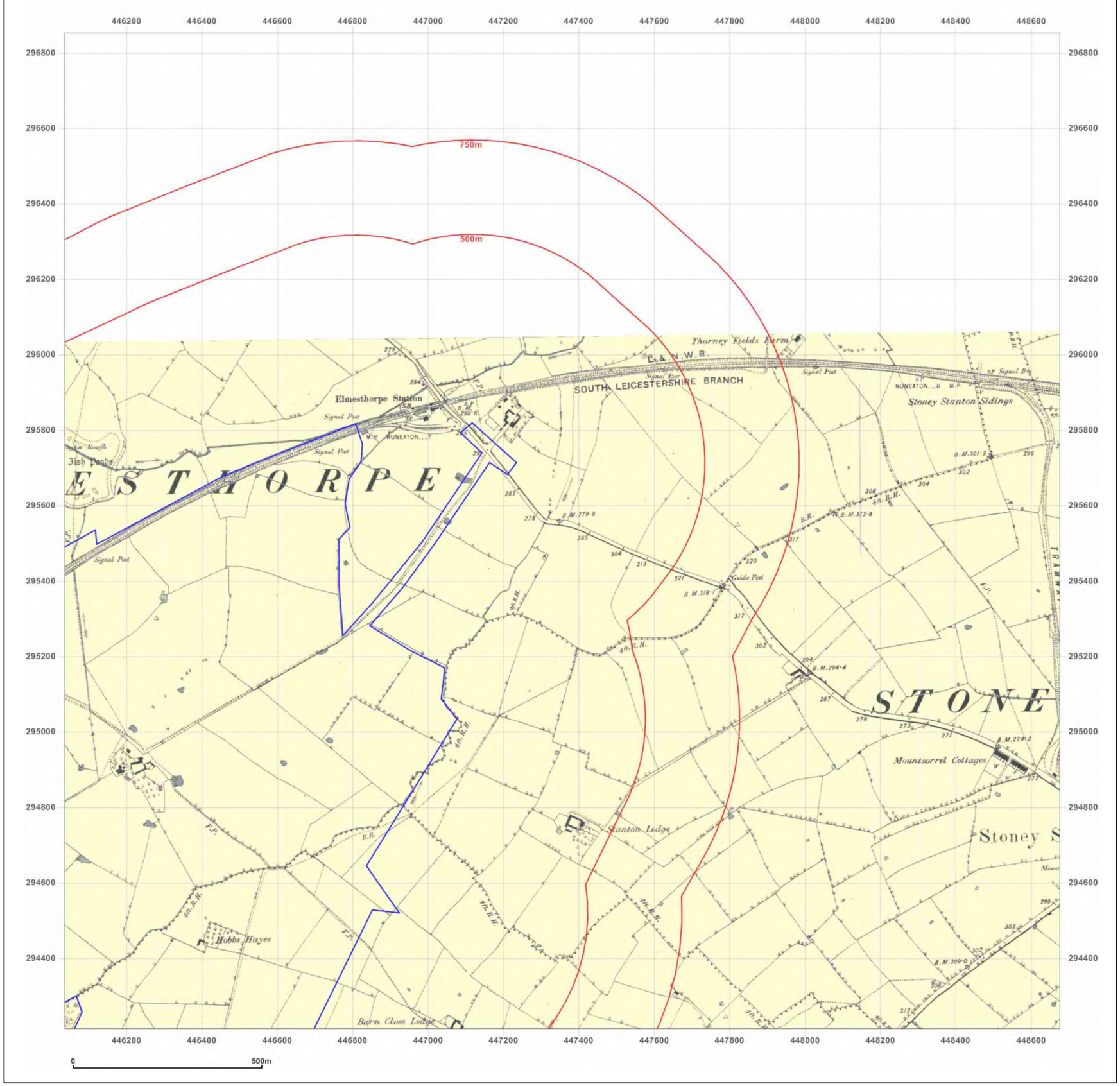

Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: County Series

Map date: **1886**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
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Production date: 30 January 2018

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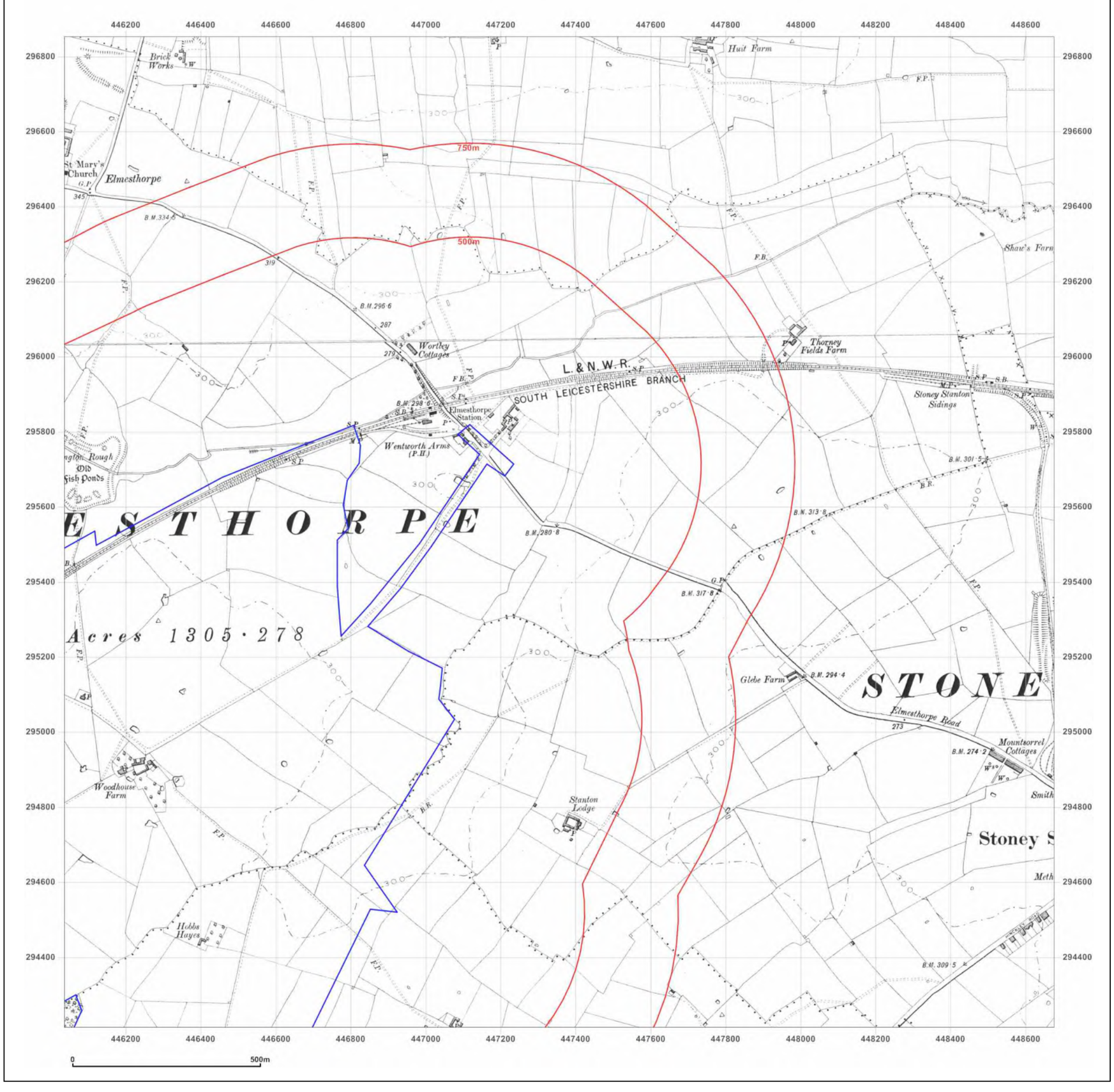

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Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: County Series

Map date: **1904**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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E: info@groundsure.com
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Production date: 30 January 2018

Map legend available at:
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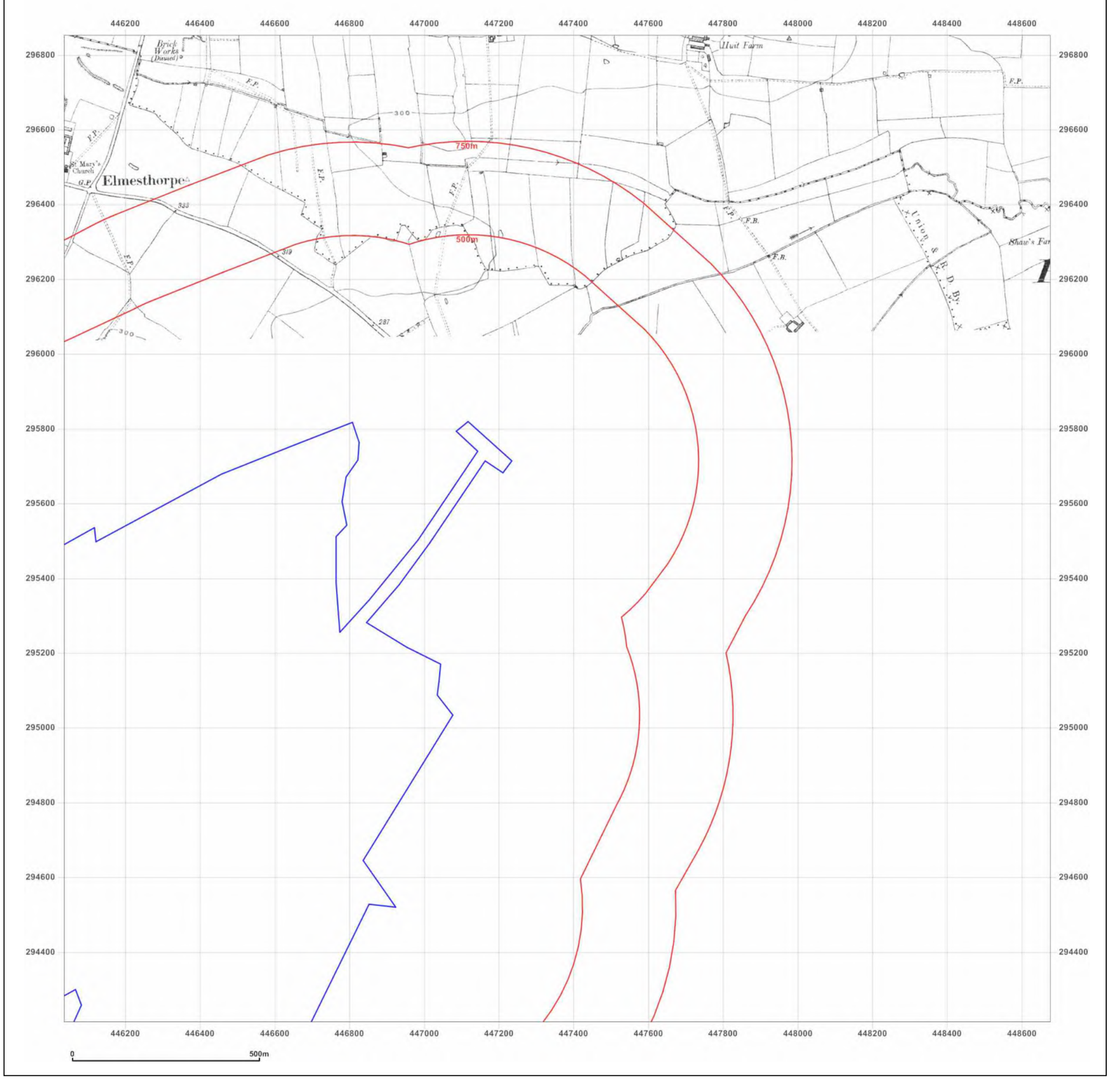

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Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: County Series

Map date: **1914**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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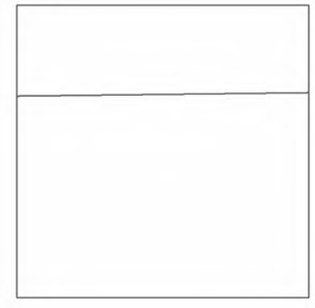
Surveyed 1886
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 30 January 2018

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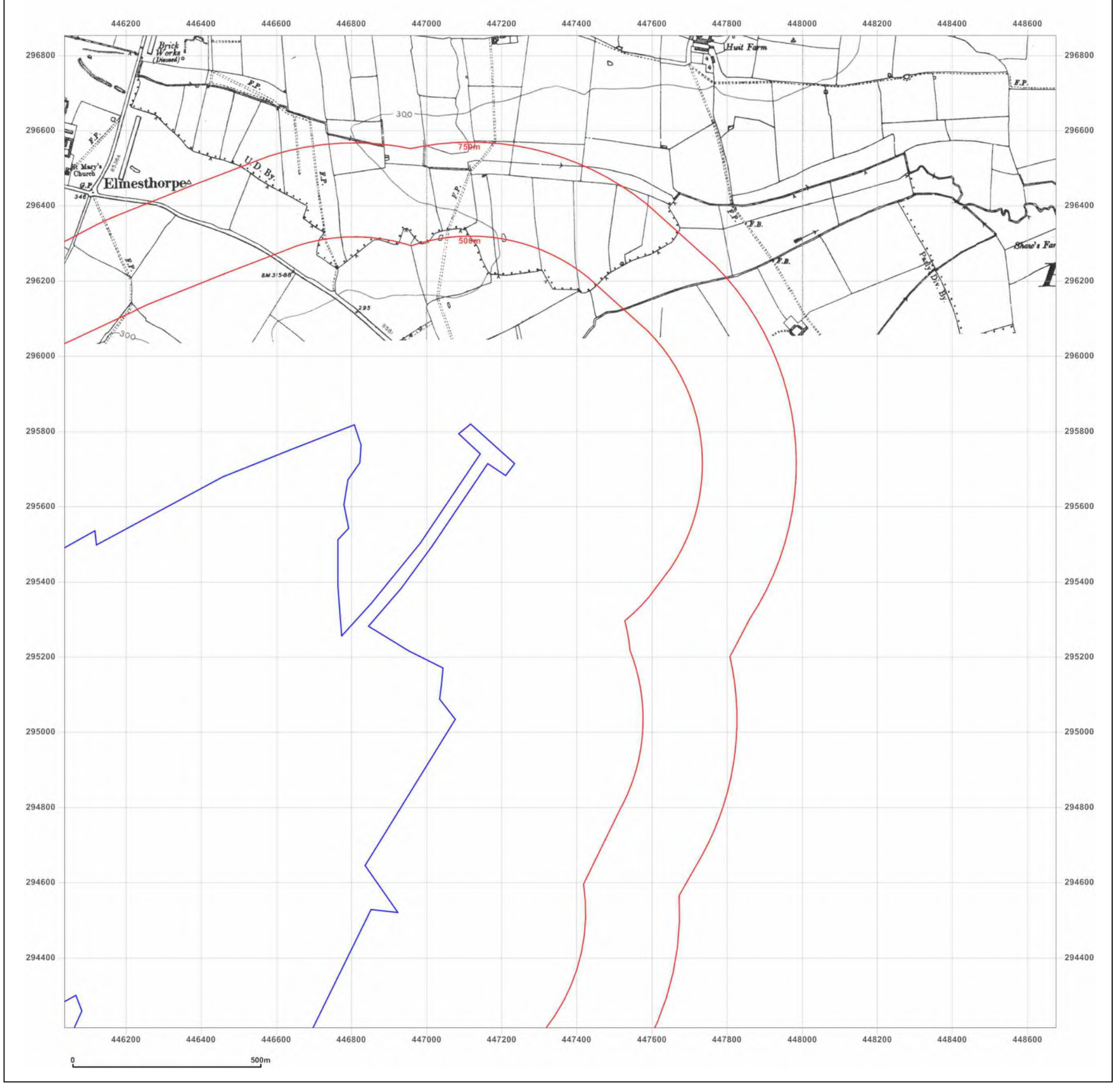

Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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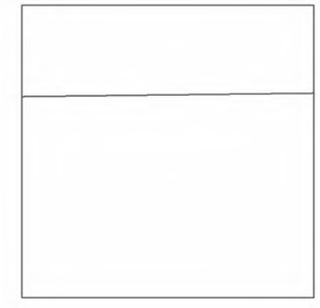
Surveyed 1886
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A



Powered by OS

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Production date: 30 January 2018

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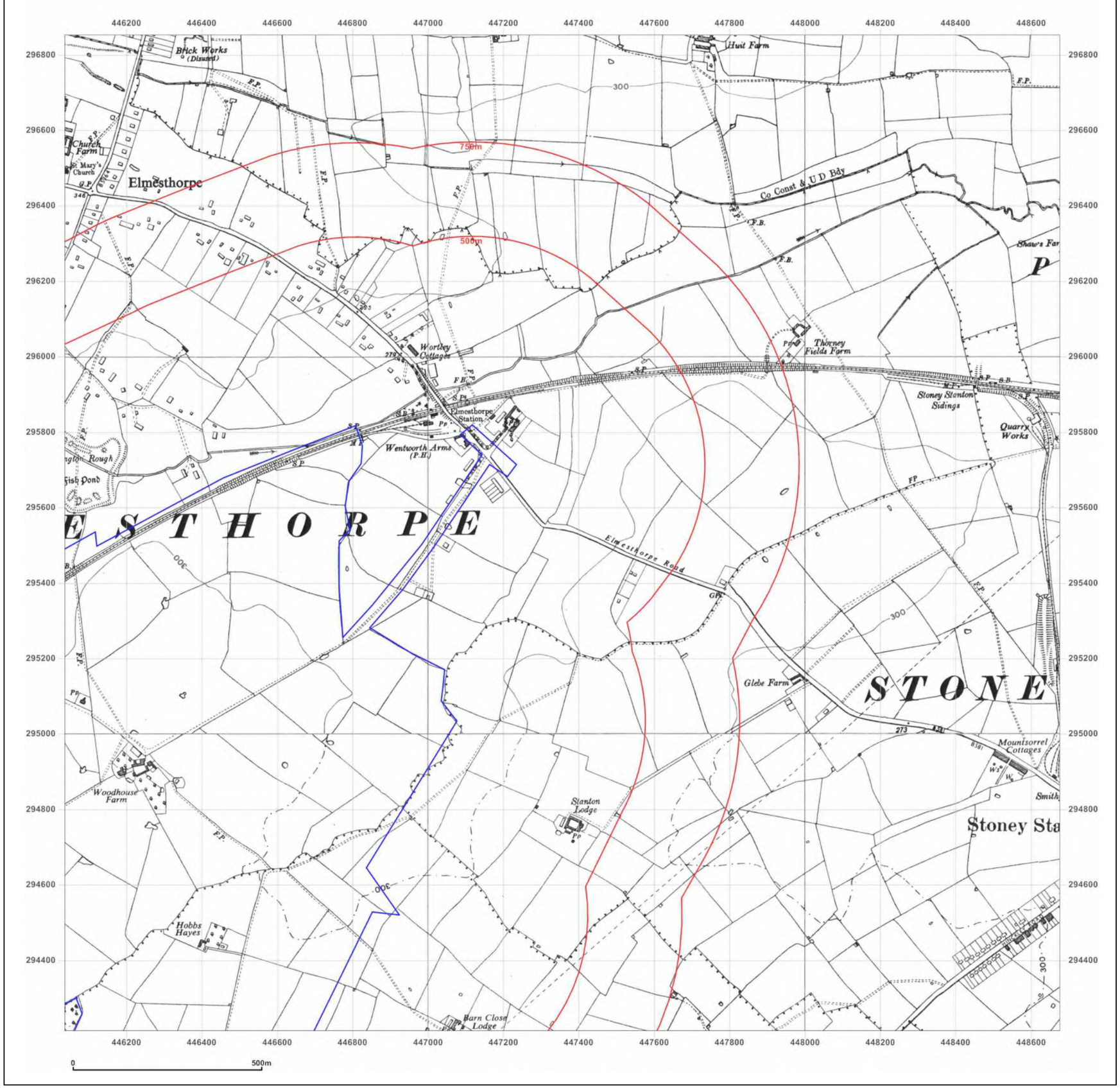

Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: Provisional

Map date: **1950-1955**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1954
Edition 1955
Copyright N/A
Levelled N/A

Powered by OS

Produced by
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Production date: 30 January 2018

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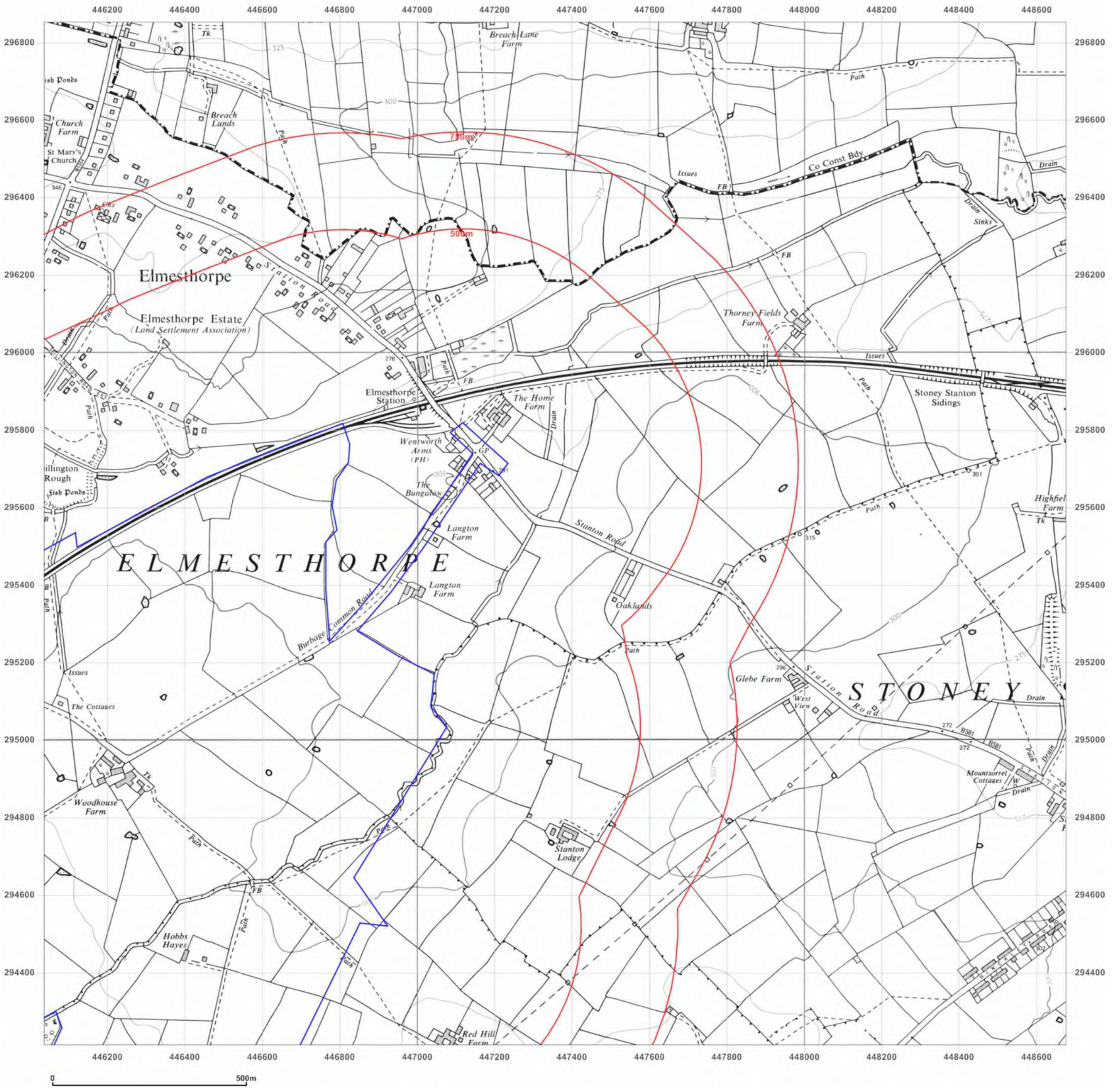

Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: Provisional

Map date: **1968**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
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Production date: 30 January 2018

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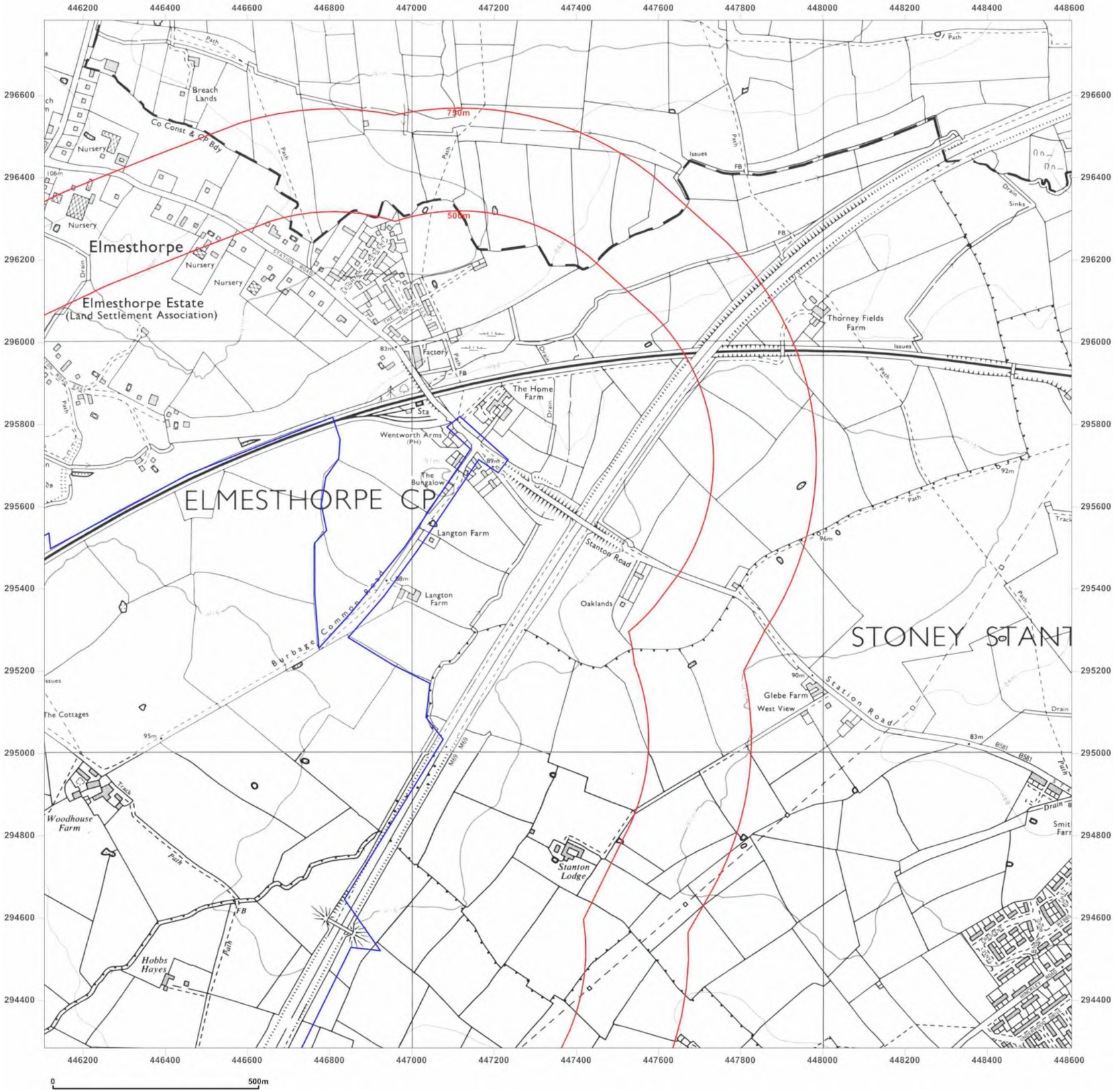

Groundsure INSIGHTS

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Grid Ref: 447355, 295532

Map Name: National Grid

Map date: **1979-1980**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1972
Revised 1980
Edition N/A
Copyright 1980
Levelled 1965

Surveyed 1976
Revised 1979
Edition N/A
Copyright 1979
Levelled 1965

Powered by

Produced by
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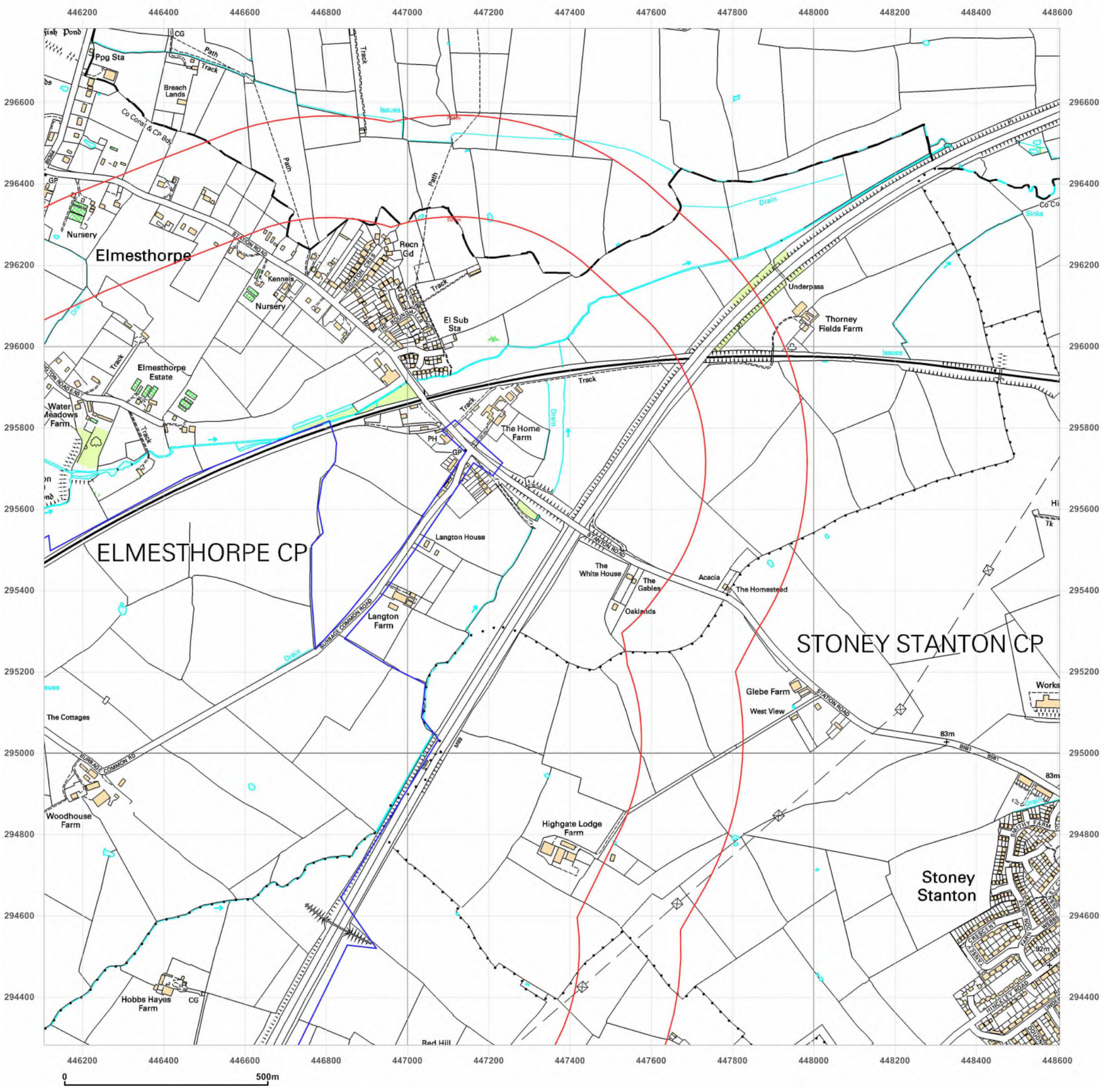

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Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: 1:10,000 Raster

Map date: **2002**

Scale: 1:10,000

Printed at: 1:10,000

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2002

Powered by OS

Produced by
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T: 08444 159000
E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

Map legend available at:
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Groundsure INSIGHTS

Site Details:

446123, 294825

Client Ref: POP018343_hinckley
Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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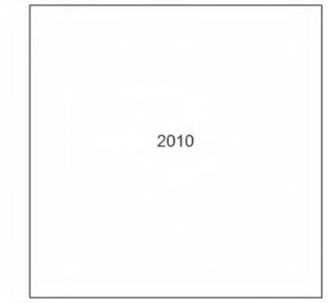

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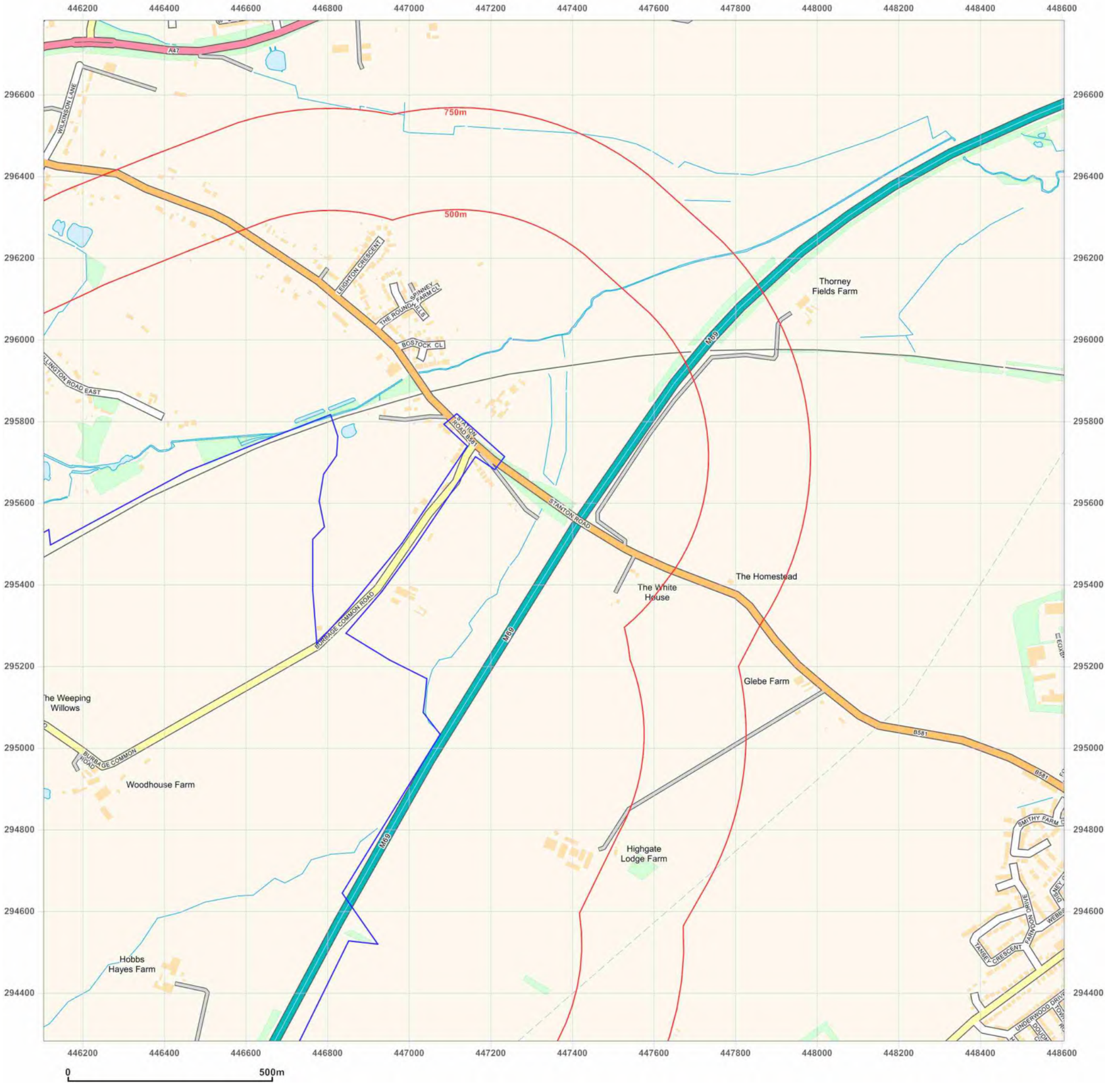

Groundsure INSIGHTS

Site Details:

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Report Ref: HYD-4695803_SS_2_2
Grid Ref: 447355, 295532

Map Name: National Grid

Map date: **2014**

Scale: 1:10,000

Printed at: 1:10,000

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Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: [REDACTED]

Production date: 30 January 2018

Map legend available at:
[REDACTED]

Appendix D

Desk Study Research Information

Groundsure Enviro Insight

Database Report

Hydrock

HYDROCK,2-4 HAWTHORN PARK, HOLDENBY ROAD,
NORTHAMPTON, NN6 8LD

Groundsure Reference:	HYD-4695801
Your Reference:	POP018343_hinckley
Report Date	30 Jan 2018
Report Delivery Method:	Email - pdf

Enviro Insight

Address: 446123, 294825,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 01752 347 515 quoting the above report reference number.

Yours faithfully,

Hydrock

Enc.
Groundsure Enviroinsight

Enviro Insight

Address:	**446123, 294825,**
Date:	**30 Jan 2018**
Reference:	**HYD-4695801**
Client:	**Hydrock**

NW N NE

W E

SW S SE

Aerial Photograph Capture date:	20-Sep-2008
Grid Reference:	446368,294098
Site Size:	230.64ha

Report Reference: HYD-4695801
Client Reference: POP018343_hinckley

Contents Page

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	28	4	17	10
1.2 Additional Information – Historical Tank Database	0	0	1	3
1.3 Additional Information – Historical Energy Features Database	2	0	2	0
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	2
1.6 Potentially Infilled Land	34	5	10	12

Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	1	0	4	4
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	0	0
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	1	1	1	1
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	2
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	1	1	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	1	0	6	2

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	1	3	9	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	1
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	1	0	3	10
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	1	1	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

	0-500m					
	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site?	No	No	No	No	No	No
6.10 Detailed River Network entries within 500m of the site	15	8	16	14	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site?	Yes
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Yes
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	High
7.4 Are there any Flood Defences within 250m of the study site?	No
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	2	1	1	1	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	2	1	1	0	0	0
8.7 Records of Local Nature Reserves (LNR)	1	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	1	0	0	0	0	4
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?	Moderate
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	Very Low
9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Negligible
9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Moderate
9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
9.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining

10.1 Are there any coal mining areas within 75m of the study site?	No
10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?	No
10.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

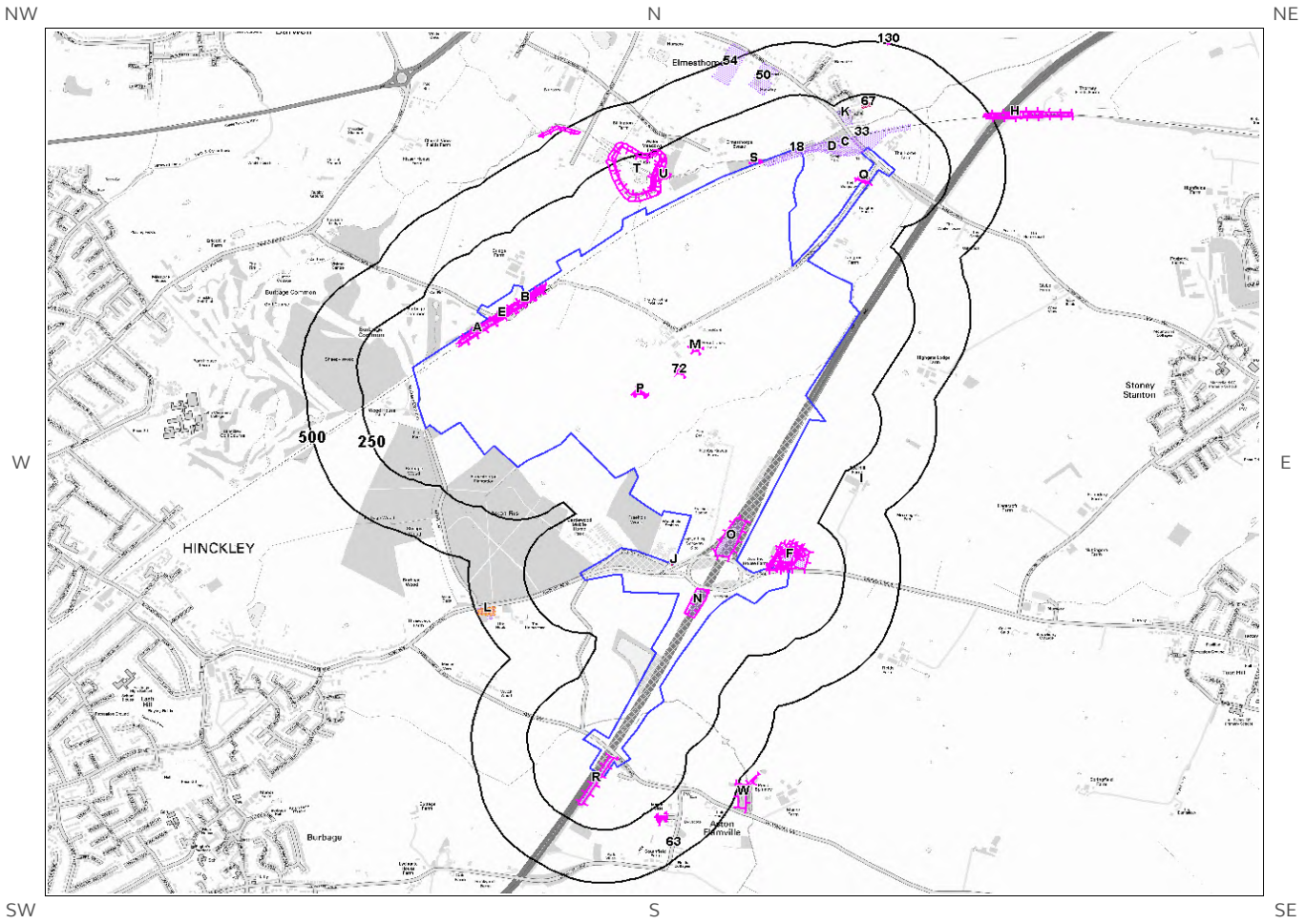
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



Site Outline

250
500
Search Buffers (m)

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Tanks

Garages

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 59

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Cuttings	1978
2A	0	On Site	Cuttings	1904
3A	0	On Site	Cuttings	1886
4E	0	On Site	Cuttings	1886
5B	0	On Site	Cuttings	1904
6B	0	On Site	Cuttings	1886
7A	0	On Site	Cuttings	1968
8C	0	On Site	Railway Sidings	1950
9D	0	On Site	Railway Sidings	1904
10C	0	On Site	Railway Sidings	1886
11D	0	On Site	Railway Sidings	1968
12C	0	On Site	Railway Sidings	1978
13E	0	On Site	Cuttings	1950
14B	0	On Site	Cuttings	1950
15E	0	On Site	Cuttings	1968
16E	0	On Site	Cuttings	1978
17C	0	On Site	Railway Sidings	1886
18	0	On Site	Railway Sidings	1886
19R	0	On Site	Unspecified Heap	1978
20F	0	On Site	Brick Works	1886
21F	0	On Site	Brick Works	1886
22F	0	On Site	Unspecified Ground Workings	1904
23F	0	On Site	Unspecified Pit	1886
24F	0	On Site	Unspecified Ground Workings	1886
25O	0	On Site	Cuttings	1978
26N	0	On Site	Cuttings	1978
27F	0	On Site	Unspecified Ground Workings	1886
28A	0	On Site	Cuttings	1950
29F	1	N	Unspecified Pit	1950
30F	13	N	Unspecified Kiln	1886
31F	16	N	Unspecified Kiln	1886
32F	29	N	Sand Pit	1886

33	60	N	Railway Sidings	1886
34F	63	N	Refuse Heap	1950
35F	63	N	Refuse Heap	1904
36C	72	W	Railway Building	1950
37C	75	NW	Railway Building	1904
38C	77	W	Railway Building	1950
39C	77	NW	Railway Station	1950
40C	77	NW	Railway Station	1904
41C	83	NW	Railway Station	1886
42C	85	NW	Railway Station	1886
43C	86	NW	Railway Station	1978
44C	86	NW	Railway Station	1968
45C	88	W	Railway Building	1886
46C	88	W	Railway Building	1886
47C	93	W	Railway Building	1978
48C	93	W	Railway Building	1968
49K	134	NW	Unspecified Factory	1978
50	290	N	Nursery	1978
51G	296	SE	Unspecified Ground Workings	1950
52G	299	SE	Unspecified Pit	1886
53G	299	SE	Unspecified Ground Workings	1904
54	393	N	Nursery	1978
55L	416	W	Garage	1968
56H	475	NE	Cuttings	1886
57H	478	NE	Cuttings	1950
58H	483	NE	Cuttings	1904
59H	484	NE	Cuttings	1886

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
60C	125	W	Unspecified Tank	1962
61I	325	SE	Unspecified Tank	1983
62I	326	SE	Unspecified Tank	1994
63	446	SE	Unspecified Tank	1963

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
64J	0	On Site	Electricity Substation	1996
65J	0	On Site	Electricity Substation	1983
66K	186	N	Electricity Substation	1984
67	197	N	Electricity Substation	1994

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 2

ID	Distance (m)	Direction	Use	Date
68L	414	W	Garage	1992
69L	449	SW	Garage	1963

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 61

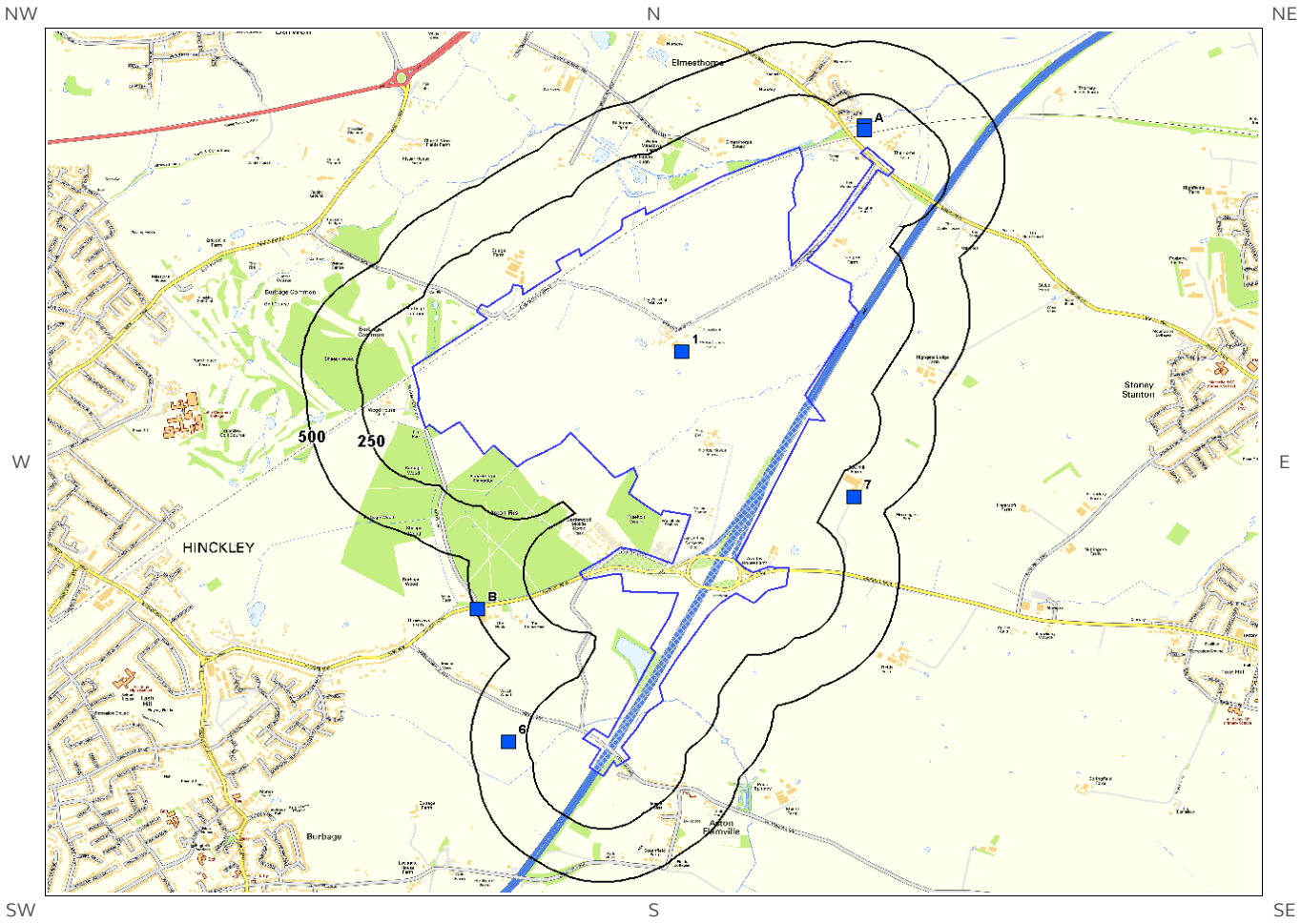
The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
70E	0	On Site	Cuttings	1978
71P	0	On Site	Pond	1950
72	0	On Site	Pond	1904

73M	0	On Site	Pond	1950
74M	0	On Site	Pond	1904
75N	0	On Site	Cuttings	1978
76O	0	On Site	Cuttings	1978
77A	0	On Site	Cuttings	1950
78F	0	On Site	Unspecified Ground Workings	1904
79F	0	On Site	Brick Works	1886
80P	0	On Site	Pond	1886
81F	0	On Site	Unspecified Pit	1886
82F	0	On Site	Brick Works	1886
83F	0	On Site	Unspecified Ground Workings	1886
84F	0	On Site	Unspecified Ground Workings	1886
85P	0	On Site	Pond	1968
86P	0	On Site	Pond	1978
87P	0	On Site	Pond	1904
88P	0	On Site	Pond	1886
89Q	0	On Site	Pond	1886
90Q	0	On Site	Pond	1904
91Q	0	On Site	Pond	1950
92B	0	On Site	Cuttings	1904
93B	0	On Site	Cuttings	1950
94Q	0	On Site	Pond	1886
95B	0	On Site	Cuttings	1886
96E	0	On Site	Cuttings	1968
97A	0	On Site	Cuttings	1904
98E	0	On Site	Cuttings	1950
99A	0	On Site	Cuttings	1886
100A	0	On Site	Cuttings	1968
101A	0	On Site	Cuttings	1978
102R	0	On Site	Unspecified Heap	1978
103E	0	On Site	Cuttings	1886
104F	1	N	Unspecified Pit	1950
105S	11	N	Pond	1968
106S	11	N	Pond	1978
107F	29	N	Sand Pit	1886
108T	38	N	Fish Pond	1950
109F	63	N	Refuse Heap	1950
110F	63	N	Refuse Heap	1904
111T	66	N	Fish Ponds	1904
112T	70	N	Old Fish Ponds	1886
113F	75	N	Pond	1968
114F	75	N	Pond	1978
115T	97	N	Fish Ponds	1978
116T	97	N	Fish Ponds	1968

117U	110	NW	Pond	1968
118U	110	NW	Pond	1978
119G	296	SE	Unspecified Ground Workings	1950
120G	299	SE	Unspecified Pit	1886
121G	299	SE	Unspecified Ground Workings	1904
122V	449	NW	Pond	1968
123V	449	NW	Pond	1978
124H	475	NE	Cuttings	1886
125H	478	NE	Cuttings	1950
126H	483	NE	Cuttings	1904
127H	484	NE	Cuttings	1886
128W	484	E	Ponds	1978
129W	484	E	Ponds	1968
130	498	N	Pond	1904

2. Environmental Permits, Incidents and Registers Map



- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

9

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	0	On Site	446280 294850	Address: WOOD HOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, ELMESTHORPE, LEICESTERSHIRE, LE9 7SE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: T/50/40122/S Permit Version: 1	Receiving Water: TRIB OF THURLASTON BROOK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 28/03/1995 Effective Date: 28-Mar-1995 Revocation Date: -
2A	82	N	447100 295900	Address: CROFT, CROFT, LEICESTERSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/50/03632/O Permit Version: 1	Receiving Water: RIVER SOAR OR TRIBS Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 07/11/1973 Effective Date: 07-Nov-1973 Revocation Date: -
3A	82	N	447100 295900	Address: ELMESTHORPE SEWERAGE - STORM O/F, ELMESTHORPE, BLABY Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/50/00340/O Permit Version: 1	Receiving Water: THURLASTON BROOK (RIVER SOAR) Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 16/04/1956 Effective Date: 16-Apr-1956 Revocation Date: -
4A	83	N	447100 295901	Address: CORK LANE, GREEN PARVA, BLABY Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: DT/8057 Permit Version: 1	Receiving Water: RIVER SENCE (SOAR) (TRIBUTARY) Status: 1961 R(PP)A APPLICATION REFUSED Issue date: 30/05/1963 Effective Date: 30-May-1963 Revocation Date: 01/03/2001
5A	102	N	447100 295920	Address: RES DEV OFF STATION ROAD - SWS, ELMESTHORPE, LEICESTERSHIRE Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: T/50/02740/O Permit Version: 1	Receiving Water: THURLASTON BROOK (T RIVER SOAR Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 29/06/1970 Effective Date: 29-Jun-1970 Revocation Date: 30/03/2000

ID	Distance (m)	Direction	NGR	Details	
6	335	W	445500 293000	Address: HINCKLEY RD ASTON FLAMVILLE PS, HINCKLEY RD, ASTON FLAMVILLE, HINCKLEY, LE10 3AA Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC3485 Permit Version: 1	Receiving Water: TRIB R SOAR Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03-Sep-2010 Revocation Date: 31/05/2017
7	343	SE	447053 294161	Address: REDHILL FARM STP, REDHILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTERSHIRE, LE9 4LH Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: T/50/46141/S Permit Version: 1	Receiving Water: UNNAMED TRIB RIVER SOAR Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 22/08/2005 Effective Date: 22-Aug-2005 Revocation Date: -
8B	492	W	445360 293630	Address: ASTON FIRS PUMPING STATION, ASTON FIRS, ASTON FIRS, SAPCOTE, LEICESTERSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/50/40071/O Permit Version: 1	Receiving Water: TRIB OF THURLASTON BROOK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 23/02/1995 Effective Date: 23-Feb-1995 Revocation Date: -
9B	492	W	445360 293630	Address: ASTON FIRS PUMPING STATION, ASTON FIRS, ASTON FIRS, SAPCOTE, LEICESTERSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: T/50/40071/O Permit Version: 1	Receiving Water: TRIB OF THURLASTON BROOK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 23/02/1995 Effective Date: 23-Feb-1995 Revocation Date: -

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

0

Database searched and no data found.

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

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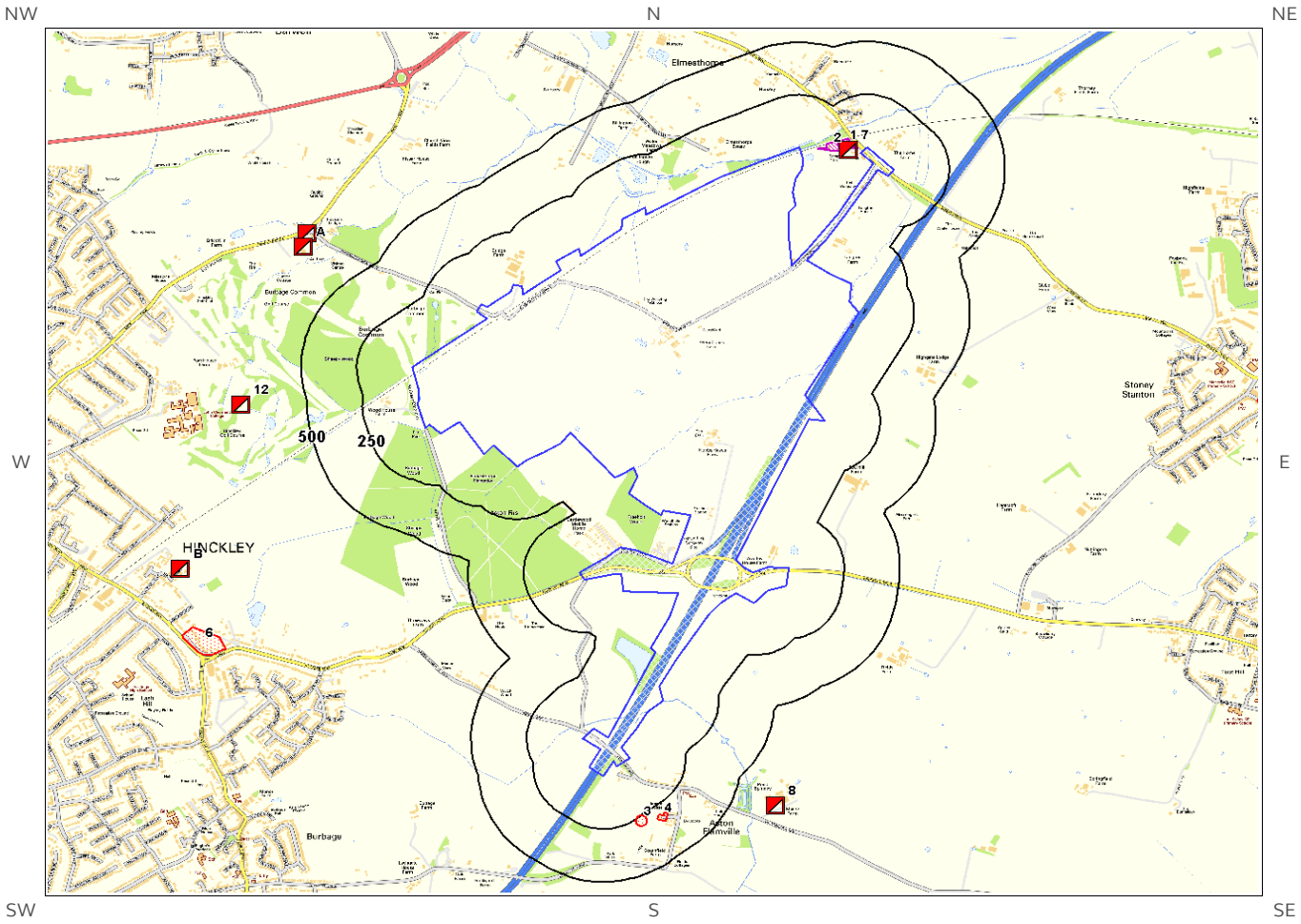
3. Landfill and Other Waste Sites Map



Site Outline

250
500
Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

4

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
3	246	SE		Site Address: Off Lychgate Lane/Burbage Lane, Aston Flamville, Blaby, Leicestershire Waste Licence: - Site Reference: 344 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: K T Waste Disposal Licence Holder: - First Recorded: 31-Dec-1989 Last Recorded: 31-Dec-1990
4	296	SE		Site Address: Off Lychgate Lane, Aston Flamville, Blaby Waste Licence: - Site Reference: GDO 282, 49SE Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Mr and Mrs Morris Licence Holder: - First Recorded: 31-Dec-1935 Last Recorded: 31-Dec-1960
Not shown	966	N		Site Address: Breach Farm, Breach Lane, Earl Shilton, Breach Lane, Earl Shilton, Leicestershire Waste Licence: - Site Reference: GDO 292 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: The Oaklands, Breach Lane, Earl Shilton, Leicestershire Operator: - Licence Holder: Mr and Mrs H Abbott First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details	
6	1359	SW		Site Address: Hinkley Road Landfill Site, Burbace Road, Sapcote Road Junction, Hinckley, Hinckley and Bosworth Waste Licence: Yes Site Reference: GDO 217, 283, 254, 0193, GDO 215 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 24-Nov-1989 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: F E Downs Limited First Recorded: 31-May-1989 Last Recorded: -

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

2

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
Not shown	1051	NW	446006 296656	Refuse Tip	1962 mapping	Polygon
Not shown	1260	N	446226 296976	Refuse Tip	1962 mapping	Polygon

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

2

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details		
1	23	NW	447036 295835	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1994	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
2	81	E	446942 295824	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1994	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

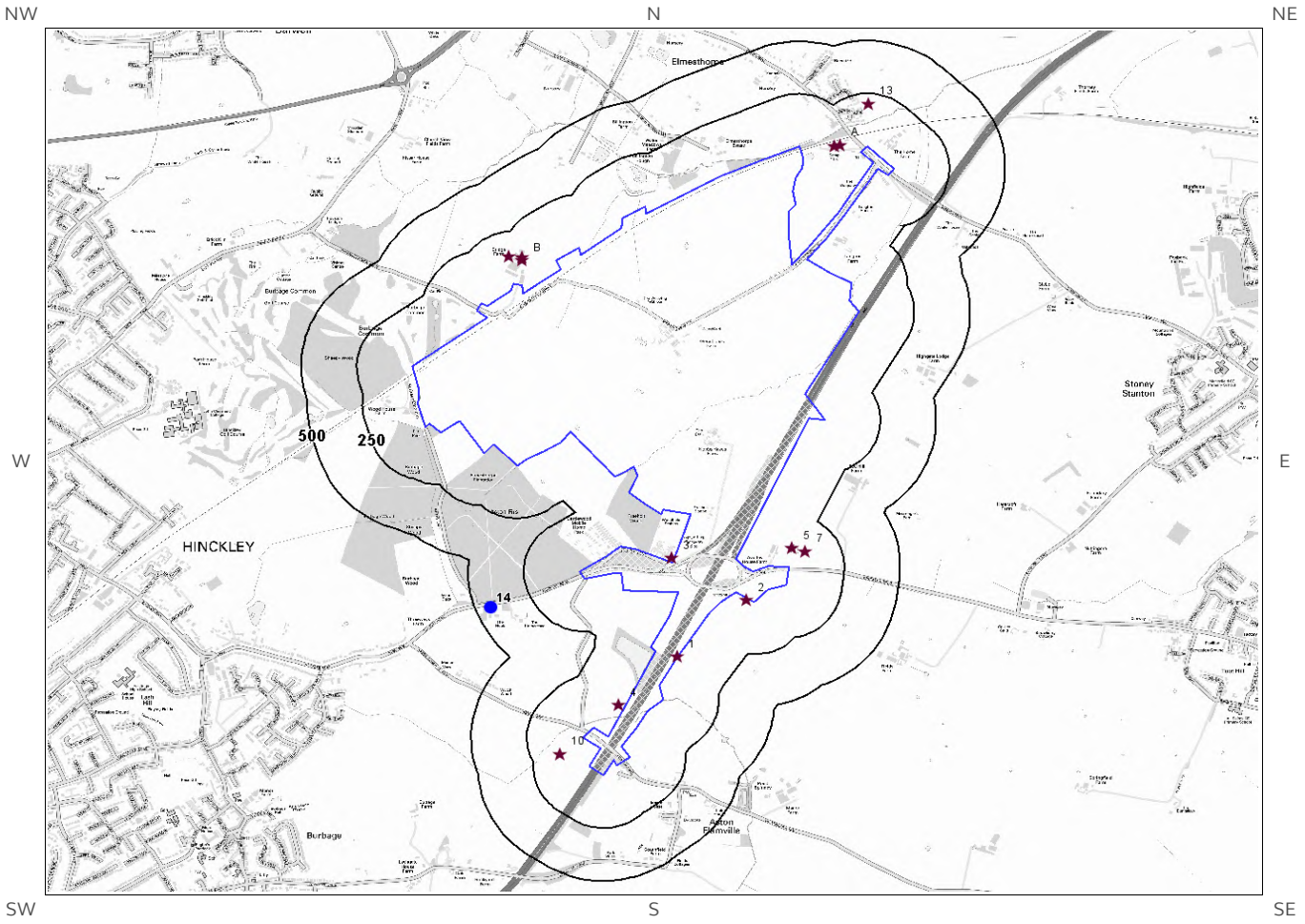
9

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
7	57	W	447029 295808	Site Address: Barrie Mills Motor Salvage, Station Yard, Elmesthorpe, Leicester, Leicestershire, LE9 7SG Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MIL002 EPR reference: EA/EPR/ZP3293CL/A001 Operator: Mills Barrie Waste Management licence No: 43318 Annual Tonnage: 5000.0	Issue Date: 16/08/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Barrie Mills Motor Salvage Correspondence Address: Barrie Mills Motor Salvage, Station Yard, Elmesthorpe, Leicester, Leicestershire, LE9
8	689	E	446700 292700	Site Address: Manor Farm, Sharnford Road, Aston Flamville, Hinckley, Leicestershire, LE10 3AW Type: Composting in open windrows Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POW039 EPR reference: EA/EPR/CP3396EN/A001 Operator: J & F Powner Ltd Waste Management licence No: 100932 Annual Tonnage: 74999.0	Issue Date: 27/07/2009 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: J & F Powner Ltd Composting Correspondence Address: Manor Farm, Sharnford Road, Aston Flamville, Hinckley, Leicestershire, LE10
9A	755	NW	444580 295350	Site Address: Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: - Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: - Operator: E Taylor Skip Hire And Recycling Limited Waste Management licence No: 43716 Annual Tonnage: 0.0	Issue Date: 12/02/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: - Correspondence Address: Highway House, Hinckley Road, Wolvey, Leicester, Leicestershire, LE10 3HQ
10A	755	NW	444580 295350	Site Address: Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: - Operator: E Taylor Skip Hire And Recycling Limited Waste Management licence No: 43716 Annual Tonnage: 0.0	Issue Date: 12/02/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: 16.04.08 Correspondence Address: Highway House, Hinckley Road, Wolvey, Leicester, Leicestershire, LE10 3HQ

ID	Distance (m)	Direction	NGR	Details	
11A	755	NW	444580 295350	Site Address: Lynden Lea, Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: EA/EPR/DP3190CY/A001 Operator: E Taylor Skip Hire & Recycling Ltd Waste Management licence No: 43716 Annual Tonnage: 74999.0	Issue Date: 12/02/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: E Taylor Skip Hire & Recycling Ltd Correspondence Address: Lynden Lea, Leicester Road, Hinckley, Leicester, Leicestershire, LE10
12	790	W	444300 294600	Site Address: Hinckley Golf Club, Leicester Road, Hinckley, Leicestershire, LE10 3DR Type: Use of waste in construction <100,000 tps Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HGC002 EPR reference: EA/EPR/AB3207CY/S002 Operator: Hinckley Golf Club Limited Waste Management licence No: 400476 Annual Tonnage: 0.0	Issue Date: 30/07/2013 Effective Date: - Modified: - Surrendered Date: 05/09/2016 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Hinckley Golf Club Correspondence Address: Hinckley Golf Club, Leicester Road, Hinckley, Leicestershire, LE10
13A	794	NW	444597 295413	Site Address: Lyndon Lea, Leicester Road, Hinckley, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MEG002 EPR reference: EA/EPR/WP3793CH/A001 Operator: M & E & G Taylor Waste Management licence No: 43363 Annual Tonnage: 24999.0	Issue Date: 08/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Lynden Lea Correspondence Address: Lyndon Lea, Leicester Road, Hinckley, Leicestershire, LE10
14B	1288	SW	444026 293824	Site Address: Burbage, Off Elm Tree Drive, Burbage, Hinckley, Leicestershire, LE10 2TX Type: Landfill taking other wastes Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DOW001 EPR reference: - Operator: F E Downes Ltd Waste Management licence No: 43331 Annual Tonnage: 0.0	Issue Date: 24/11/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: F E Downes Ltd Correspondence Address: Stockwell Head, Hinckley, Leicestershire, LE10 1RG
15B	1288	SW	444026 293824	Site Address: Burbage, Off Elm Tree Drive, Burbage, Hinckley, Leicestershire, LE10 2TX Type: Landfill taking other wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DOW001 EPR reference: EA/EPR/NP3693CQ/A001 Operator: F E Downes Ltd Waste Management licence No: 43331 Annual Tonnage: 150000.0	Issue Date: 24/11/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: F E Downes Ltd Correspondence Address: Burbage, Off Elm Tree Drive, Burbage, Hinckley, Leicestershire, LE10

4. Current Land Use Map



Site Outline

Search Buffers (m)

250

500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 13

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	0	On Site	Pylon	446260 293403	LE10	Electrical Features	Infrastructure and Facilities
2	10	SW	Pylon	446567 293671	LE9	Electrical Features	Infrastructure and Facilities
3	16	W	Electricity Sub Station	446231 293870	LE9	Electrical Features	Infrastructure and Facilities
4	30	NW	Pylon	445996 293173	LE10	Electrical Features	Infrastructure and Facilities
5	93	N	Jetty	446774 293917	LE9	Moorings and Unloading Facilities	Water
6A	100	W	Barrie Mills Motor Salvage	446991 295828	Station Yard, Station Road, Elmesthorpe, Leicester, LE9 7SG	Scrap Metal Merchants	Recycling Services
7	105	NE	Pylon	446832 293903	LE9	Electrical Features	Infrastructure and Facilities
8B	119	N	Silo	445563 295281	LE9	Hoppers and Silos	Farming
9A	125	W	Scrap Yard	446963 295824	LE9	Scrap Metal Merchants	Recycling Services
10	128	SW	Pylon	445730 292941	LE10	Electrical Features	Infrastructure and Facilities
11B	133	N	Silo	445562 295295	LE9	Hoppers and Silos	Farming
12B	133	N	Hebblethwaite Farms	445502 295297	Bridge Farm, Burbage Common Road, Elmesthorpe, Leicester, LE9 7SE	Livestock Farming	Farming
13	204	N	Electricity Sub Station	447119 296024	LE9	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 1

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
14	434	SW	445421 293634	Unbranded	Woodside Garage, Hinckley Road, Hinckley Road, Sapcote, Hinckley, Leicestershire, LE9 4LH	No	Open

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT

5.3 Bedrock and Solid Geology

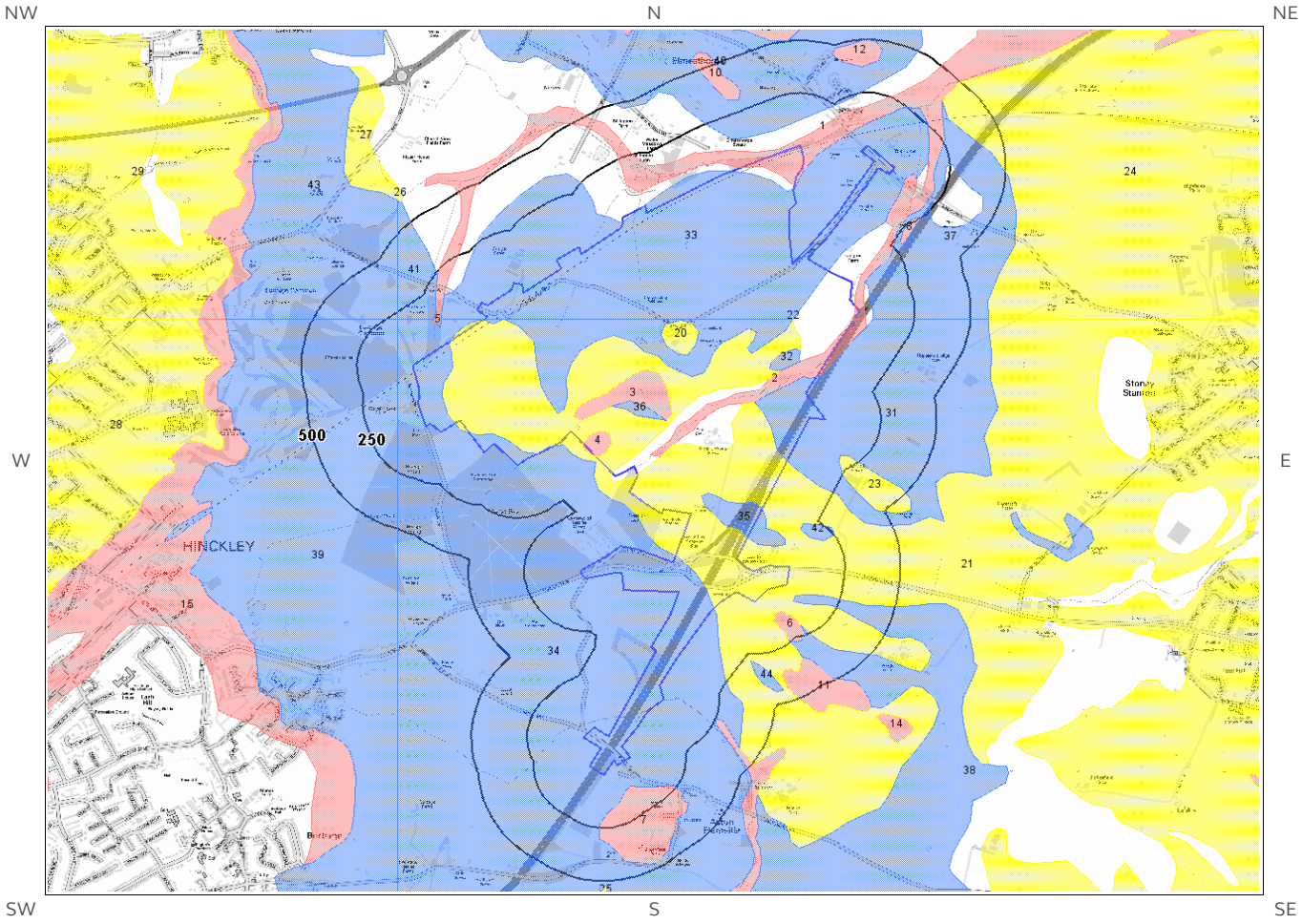
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
MMG-MDST	MERCIA MUDSTONE GROUP	MUDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

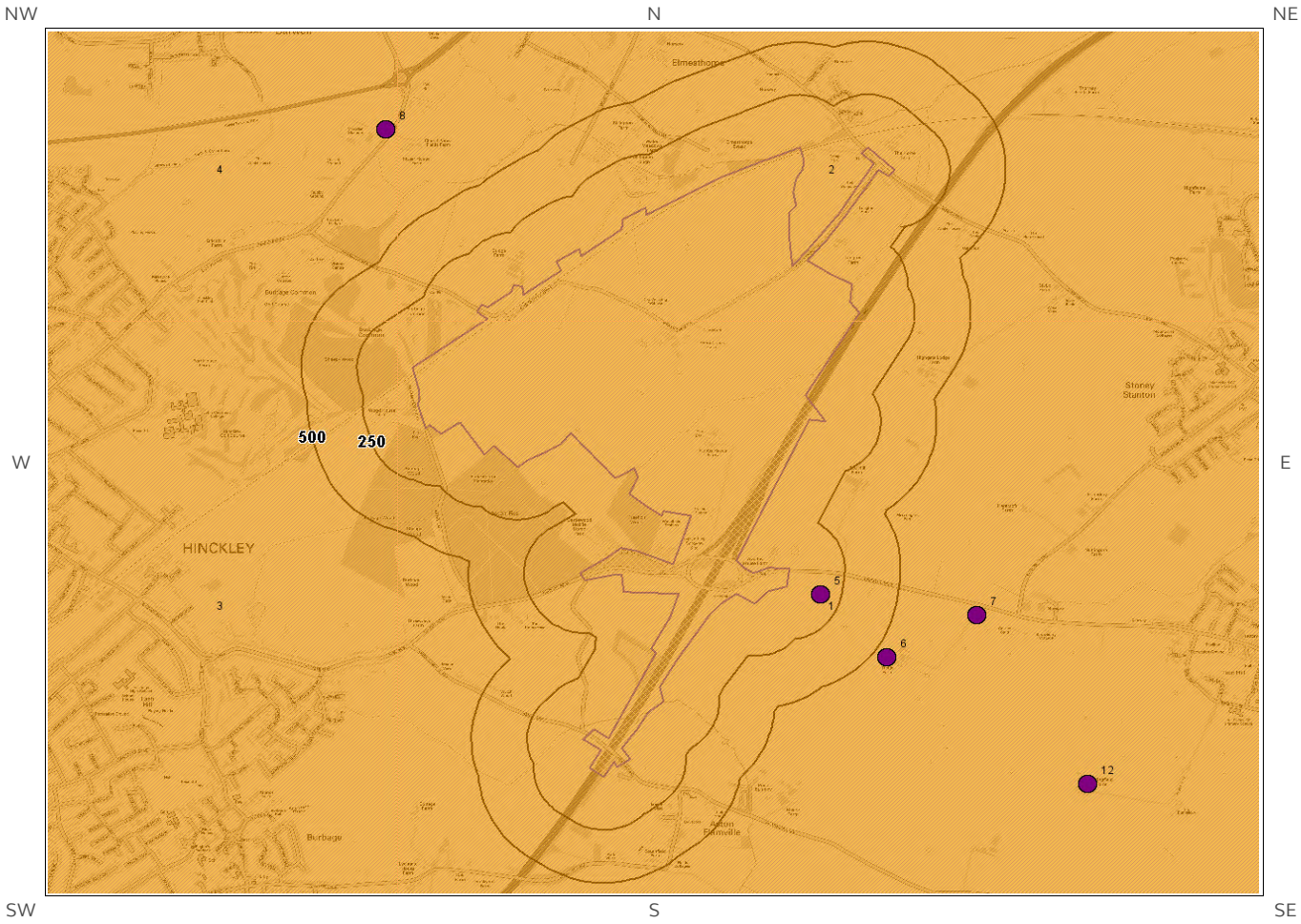
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licenses



Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

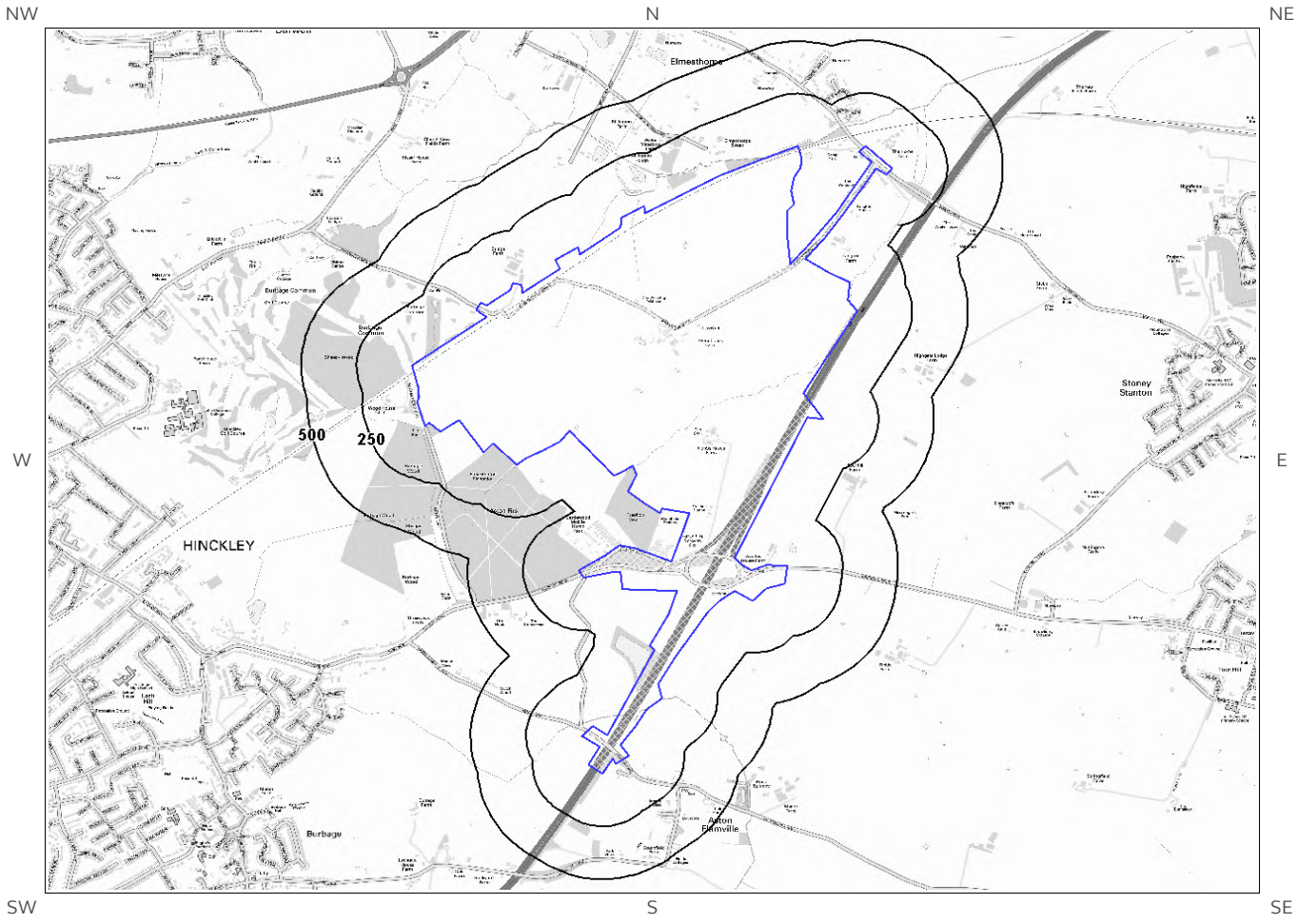
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

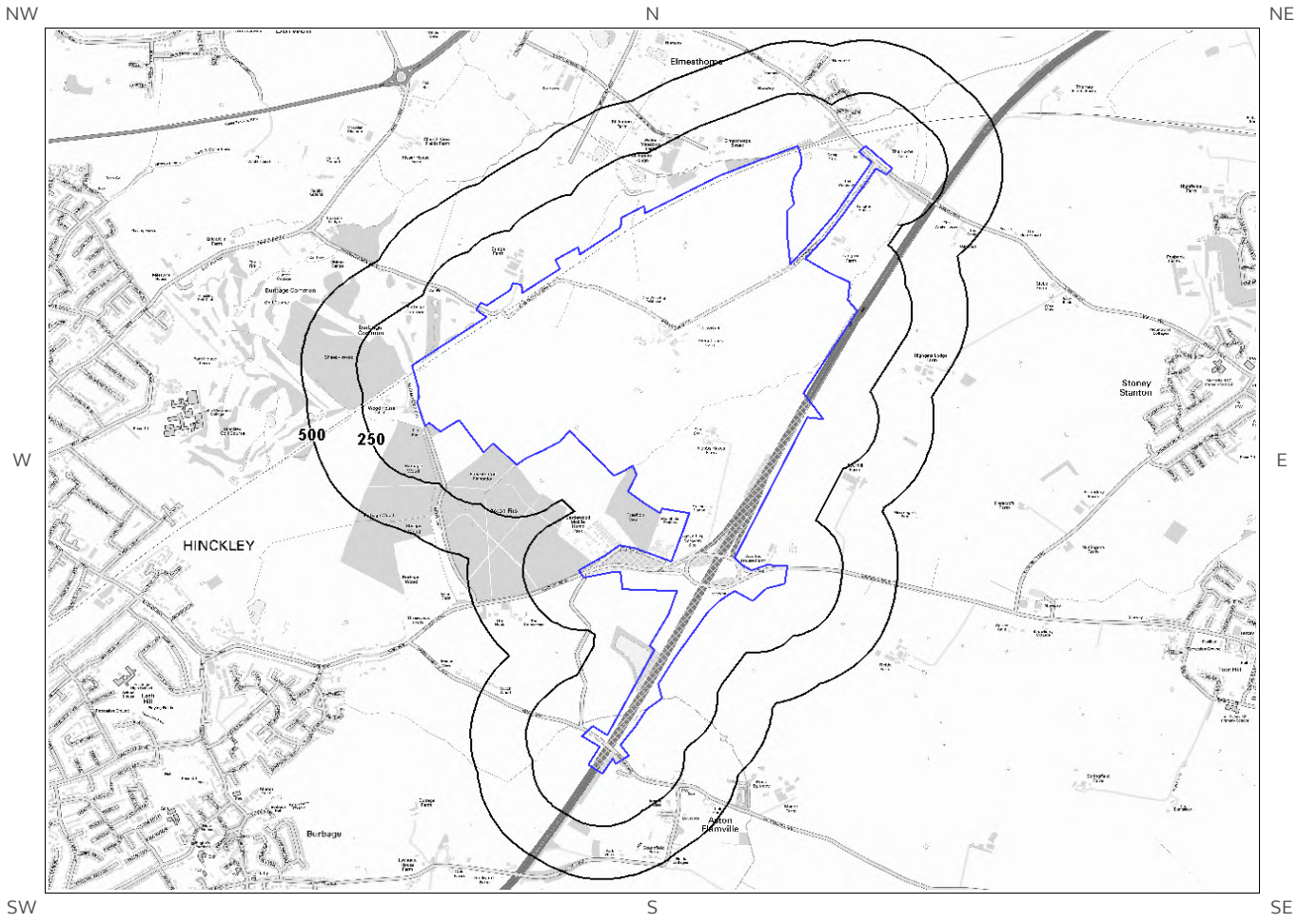
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



Site Outline

250
500
Search Buffers (m)

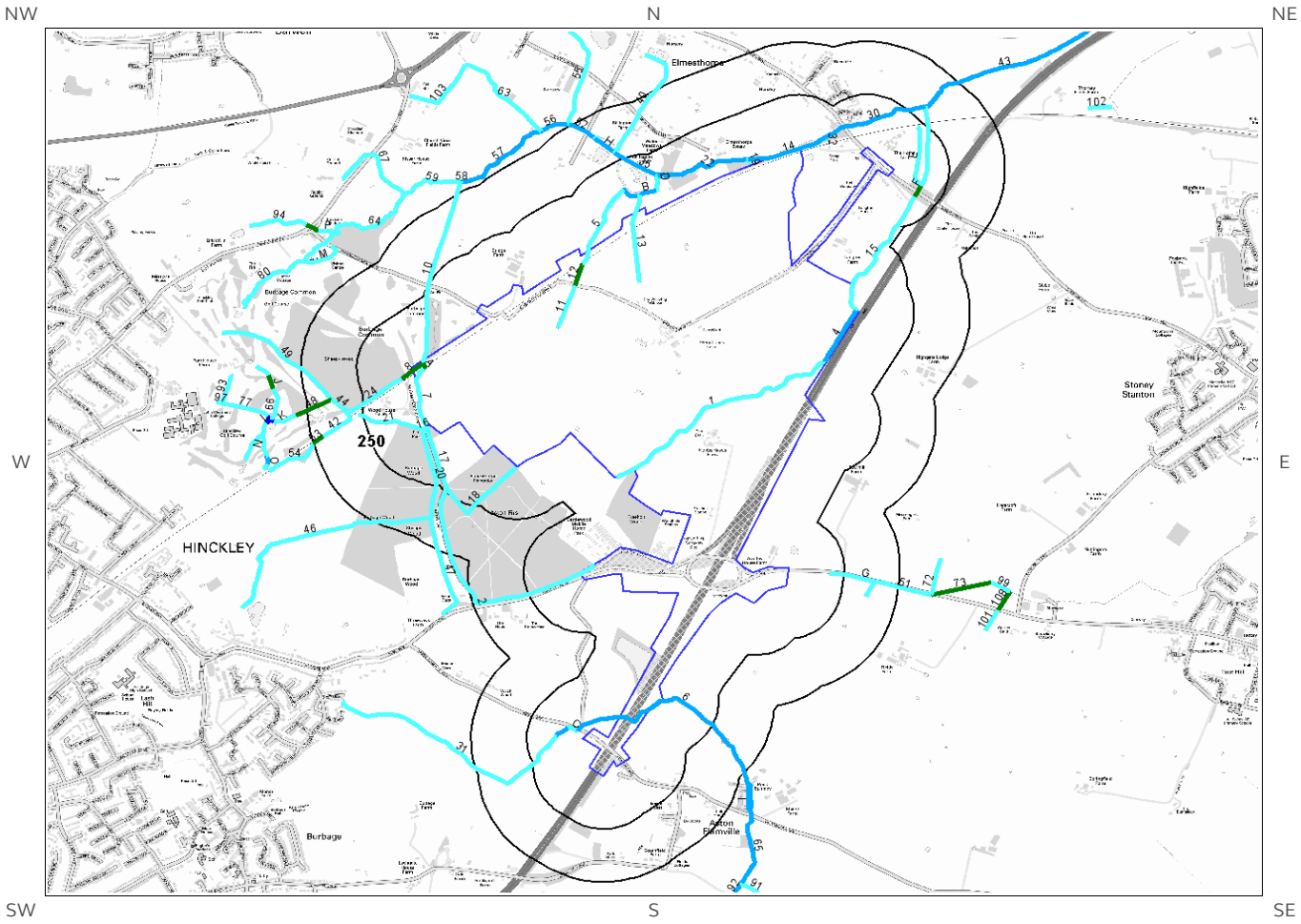
Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

6e. Hydrology – Detailed River Network and River Quality



Site Outline

250
500
Search Buffers (m)

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Potential Sewer)
Underground River (local knowledge)

6.Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property?
Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
3	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
20	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
21	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
22	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
31	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
32	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
33	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
34	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
35	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
36	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
37	57	E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
38	66	SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Distance (m)	Direction	Designation	Description
39	70	W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	79	NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	105	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	109	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
40	109	N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
41	133	NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
42	166	NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
23	180	S	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
43	225	NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	236	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	250	E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
44	281	SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	305	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
24	333	NE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	337	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
12	373	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
3	70	W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
4	225	NW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
5	157	E	446900 293700	Status: Historical Licence No: 03/28/50/0019 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Sapcote Fields Farm - Well(1) Data Type: Point Name: TAYLOR	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 29/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
6	565	SE	447200 293400	Status: Historical Licence No: 03/28/50/0019 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Sapcote Fields Farm - Well(2) Data Type: Point Name: TAYLOR	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 29/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
7	864	E	447600 293600	Status: Historical Licence No: 03/28/50/0011 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Boundary Farm Data Type: Point Name: CLARKE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 3/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
8	932	NW	444950 295900	Status: Historical Licence No: 03/28/50/0140 Details: Spray Irrigation - Storage Direct Source: Groundwater Midlands Region Point: Hinckley Utd Fc-borehole Data Type: Point Name: HINCKLEY UNITED FOOTBALL CLUB LIMITED	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 108 Original Application No: A/28/50/26 Original Start Date: 24/1/2005 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 13/3/2005 Version End Date:
Not shown	1352	SE	446800 291800	Status: Historical Licence No: 03/28/50/0060 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Mickle Hill Data Type: Point Name: CROSS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
Not shown	1587	SW	444700 291800	Status: Historical Licence No: 03/28/50/0058 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Deepdale Farm - Well (1) Data Type: Point Name: MOORE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
Not shown	1627	SW	445000 291500	Status: Historical Licence No: 03/28/50/0058 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Deepdale Farm - Well (2) Data Type: Point Name: MOORE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
12	1646	SE	448100 292800	Status: Historical Licence No: 03/28/50/0059 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Springfield Farm Data Type: Point Name: FORSTER	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
Not shown	1741	W	443400 294200	Status: Historical Licence No: 03/28/19/0027 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: Hinckley Bowling Club - Borehole Data Type: Point Name: HINCKLEY BOWLING CLUB	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 4/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 4/1/1966 Version End Date:
Not shown	1742	SW	444800 291500	Status: Historical Licence No: 03/28/50/0119 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Greenlea Farm - Borehole Data Type: Point Name: PK & J PATERSON	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1761	SW	444400 291900	Status: Historical Licence No: 03/28/50/0120 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 88 Lutterworth Road - Well (3) Data Type: Point Name: JUDKINS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 4/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
Not shown	1819	SW	444400 291800	Status: Historical Licence No: 03/28/50/0120 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 88 Lutterworth Road - Well (2) Data Type: Point Name: JUDKINS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 4/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
Not shown	1822	SW	444800 291400	Status: Historical Licence No: 03/28/50/0119 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: Greenlea Farm - Well Data Type: Point Name: PK & J PATERSON	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:
Not shown	1845	SW	444300 291900	Status: Historical Licence No: 03/28/50/0120 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 88 Lutterworth Road - Well (1) Data Type: Point Name: JUDKINS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 4/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2000 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? No

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
117	SE	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
353	SE	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.

6.9 River Quality

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? No

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

ID	Distance (m)	Direction	Details	
1	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
2	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
3A	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
4	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
5	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
6	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
7	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
8	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
9A	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
10	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
11	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
12	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
13	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
14	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
15	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
16	1	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
17	2	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
18	5	SW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
19	13	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
20	17	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
21	17	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
22	32	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
23C	41	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
24	60	W	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
25B	63	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
26B	63	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
27C	81	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
28B	82	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
29E	101	E	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
30	111	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
31	116	W	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
32	125	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
33D	131	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
34D	133	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
35	142	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
36E	145	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
37F	145	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
38F	145	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
39G	184	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
40	291	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
41H	291	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
42	308	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
43	316	NE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
44	335	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
45G	361	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
46	387	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
47	387	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
48	389	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
49	389	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
50H	390	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
51	390	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
52	396	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
53	450	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined

6.11 Surface Water Features

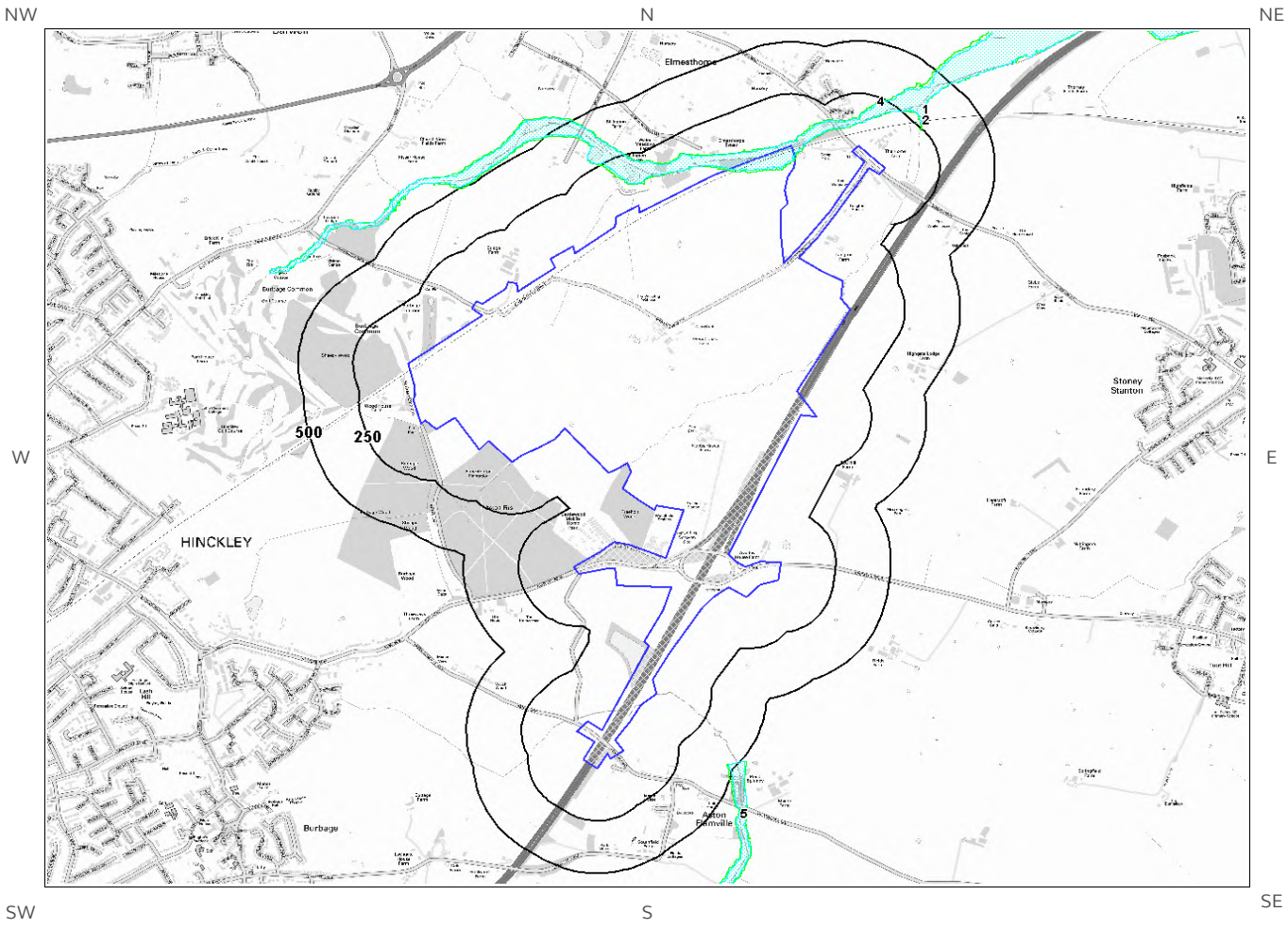
Are there any surface water features within 250m of the study site?	Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
0	N
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
5	SW
6	SE
9	N
10	N
12	E
13	N
13	NW
17	W
20	SW
26	NW
27	NW
33	W
41	NW
41	S
60	W
62	NW
72	N
73	N
76	NW
79	NW
79	NW
82	NW
82	W
86	NW
102	E
106	NW
109	N
112	W

Distance (m)	Direction
115	NW
116	N
116	W
118	NW
124	NW
125	E
136	E
142	E
151	SE
152	NW
161	SE
175	NW
184	E
206	SW
222	NE
224	SE
226	NE
231	S
237	SW
241	NW

7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

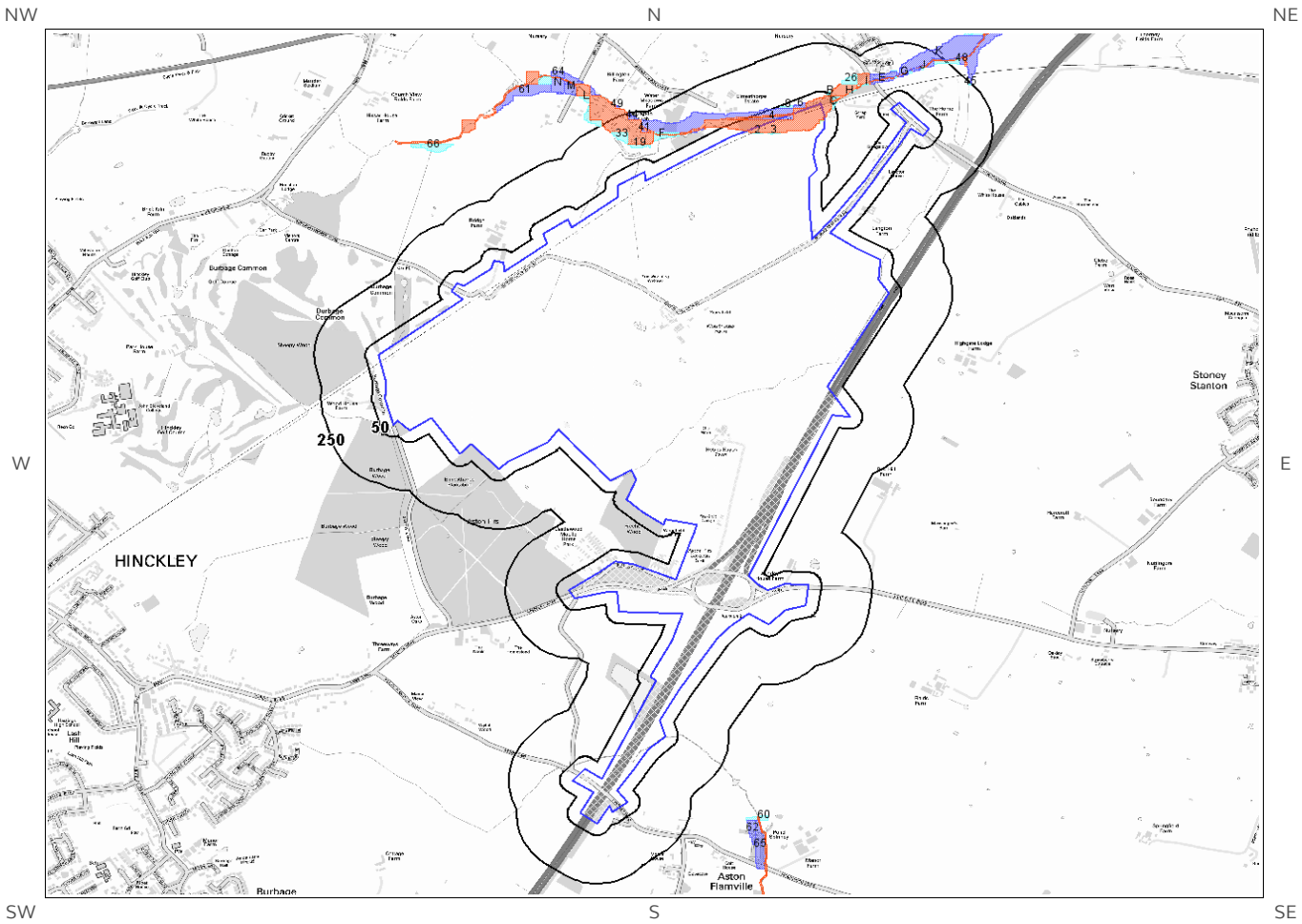
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



Site Outline

100
250
Search Buffers (m)

RoFRaS Rating

- Very Low
- Low
- Medium
- High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? Yes

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

ID	Distance (m)	Direction	Update	Type
1	0	On Site	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
2	239	NE	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? Yes

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

ID	Distance (m)	Direction	Update	Type
1	0	On Site	24-Nov-2017	Zone 3 - (Fluvial Models)

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? High

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a High (1 in 30 or greater) chance of flooding in any given year.

Any relevant data within 250m is represented on the RoFRaS Flood map. Data to 50m is reported in the table below.

ID	Distance (m)	Direction	RoFRas flood Risk

1A	0.0	On Site	High
2	0.0	On Site	Low
3	0.0	On Site	Low
4	0.0	On Site	Medium
5	0.0	On Site	Very Low
6	4.0	N	Medium
7A	5.0	N	Medium
8	22.0	N	Low
9C	34.0	E	Low
10B	40.0	NE	Low
11B	45.0	E	Low

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Superficial Deposits Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

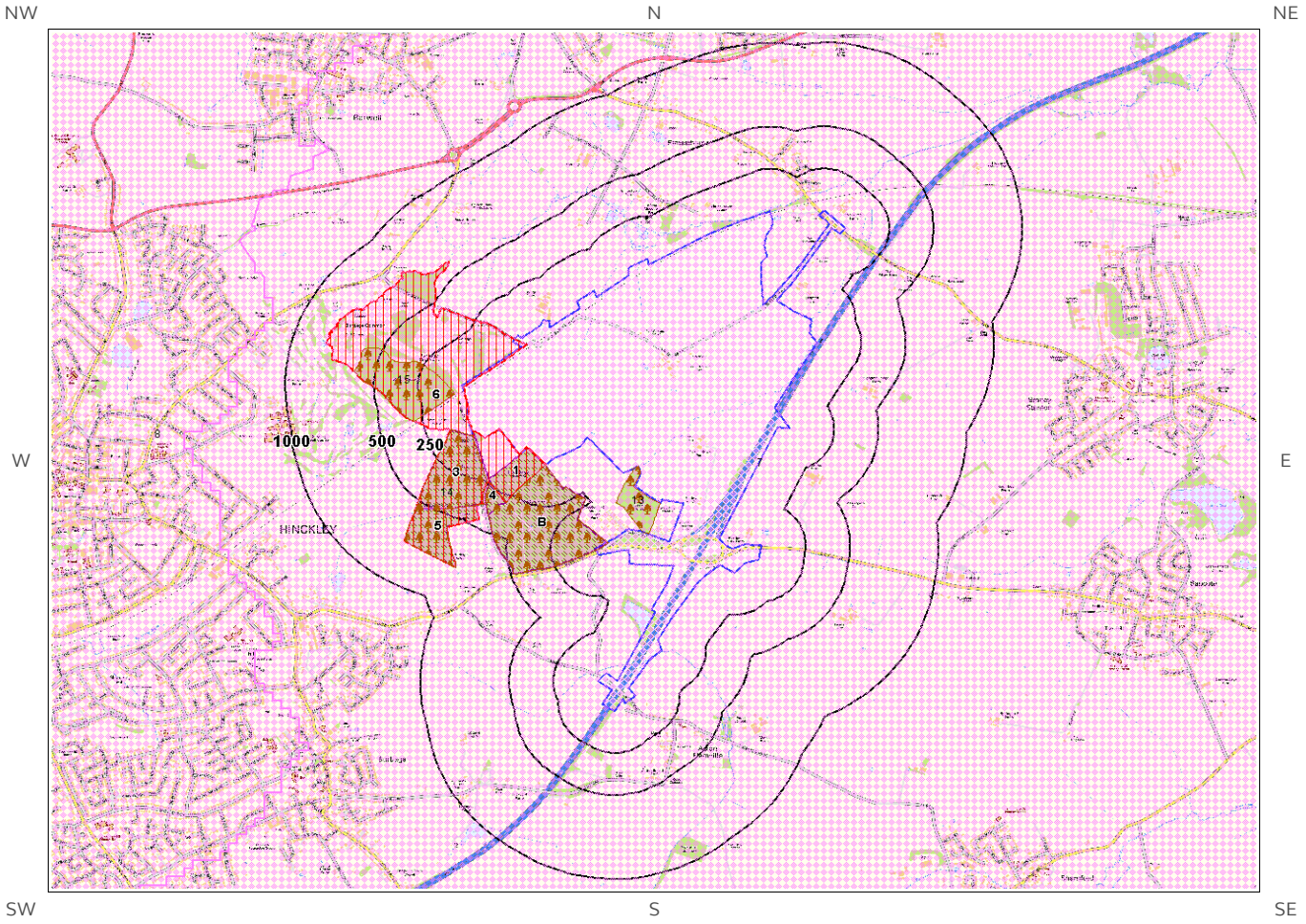
7.8 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result? High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



Site Outline

100
250
Search Buffers (m)

AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones
Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas
Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

5

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	SSSI Name	Data Source
1	0	On Site	Burbage Wood and Aston Firs	Natural England
2B	0	On Site	Burbage Wood and Aston Firs	Natural England
3	4	S	Burbage Wood and Aston Firs	Natural England
4	237	SW	Burbage Wood and Aston Firs	Natural England
5	384	SW	Burbage Wood and Aston Firs	Natural England

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

4

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
12B	0	On Site	UNKNOWN	Ancient and Semi-Natural Woodland
13	0	On Site	UNKNOWN	Ancient and Semi-Natural Woodland
14	8	SW	UNKNOWN	Ancient and Semi-Natural Woodland
15	57	W	UNKNOWN	Ancient and Semi-Natural Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

1

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
6	0	On Site	Burbage Common & Woods	Natural England

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

5

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
7	0	On Site	Existing	DEFRA
8	1134	W	Modified	DEFRA
9A	1551	NW	Modified	DEFRA
10	1553	NW	Modified	DEFRA
11A	1570	NW	Modified	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

0

Database searched and no data found.

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

9.1.1 Shrink Swell

What is the maximum Shrink-Swell*[*] hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

What is the maximum Running Sand*[*] hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property no significant increase in insurance risk due to running sand problems is likely.

* This indicates an automatically generated 50m buffer and site.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? No

Database searched and no data found.

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary? No

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No
Guidance: No Guidance Required.

Contact Details

Hydrock
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[redacted]hydrock.com

British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web[redacted]
BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: **www.environment-agency.gov.uk**
Email: enquiries@environment-agency.gov.uk

Public Health England
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

The Coal Authority
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority
Authority: Hinckley and Bosworth Borough Council
Phone: 01455 238 141
Web: http://www.hinckley-bosworth.gov.uk/
Address: Hinckley Hub, Rugby Road, Hinckley, Leicestershire, LE10

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:
[redacted]

Groundsure Geo Insight

Database Report

Hydrock

HYDROCK,2-4 HAWTHORN PARK, HOLDENBY ROAD,
NORTHAMPTON, NN6 8LD

Report Reference: HYD-4695802

Your Reference: POP018343_hinckley

Report Date 30 Jan 2018

Report Delivery Method: Email - pdf

Geo Insight

Address: 446123, 294825,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 01752 347 515 quoting the above report reference number.

Yours faithfully,

Hydrock

Enc.
Groundsure Geo Insight

Geo Insight

Address:	**446123, 294825,**
Date:	**30 Jan 2018**
Reference:	**HYD-4695802**
Client:	**Hydrock**

NW N NE

W E

SW S SE

Aerial Photograph Capture date:	20-Sep-2008
Grid Reference:	446368,294098
Site Size:	230.64ha

Contents Page

Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology 1:10,000 Scale		
1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	No
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	Yes
	1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale?	No
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	No

Section 2: Geology 1:50,000 Scale		
2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	No
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	Yes
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	Yes
	2.2.3 Are there any records of landslip within 500m of the study site boundary?	No
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features	2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?	Yes
	2.3.3 Are there any records of linear features within 500m of the study site boundary?	No

Section 3: Radon

3. Radon	3.1Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
	3.2Radon Protection	No radon protective measures are necessary.

Section 4: Ground Workings	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	28	4	10	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	0	0	0
4.3 Current Ground Workings	0	0	1	0	2

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	0	0	0
5.2 Coal Mining	0	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	0	0	0	0	0
5.5 Non–Coal Mining Cavities	0	0	0	0	0
5.5 Natural Cavities	0	0	0	0	0

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0

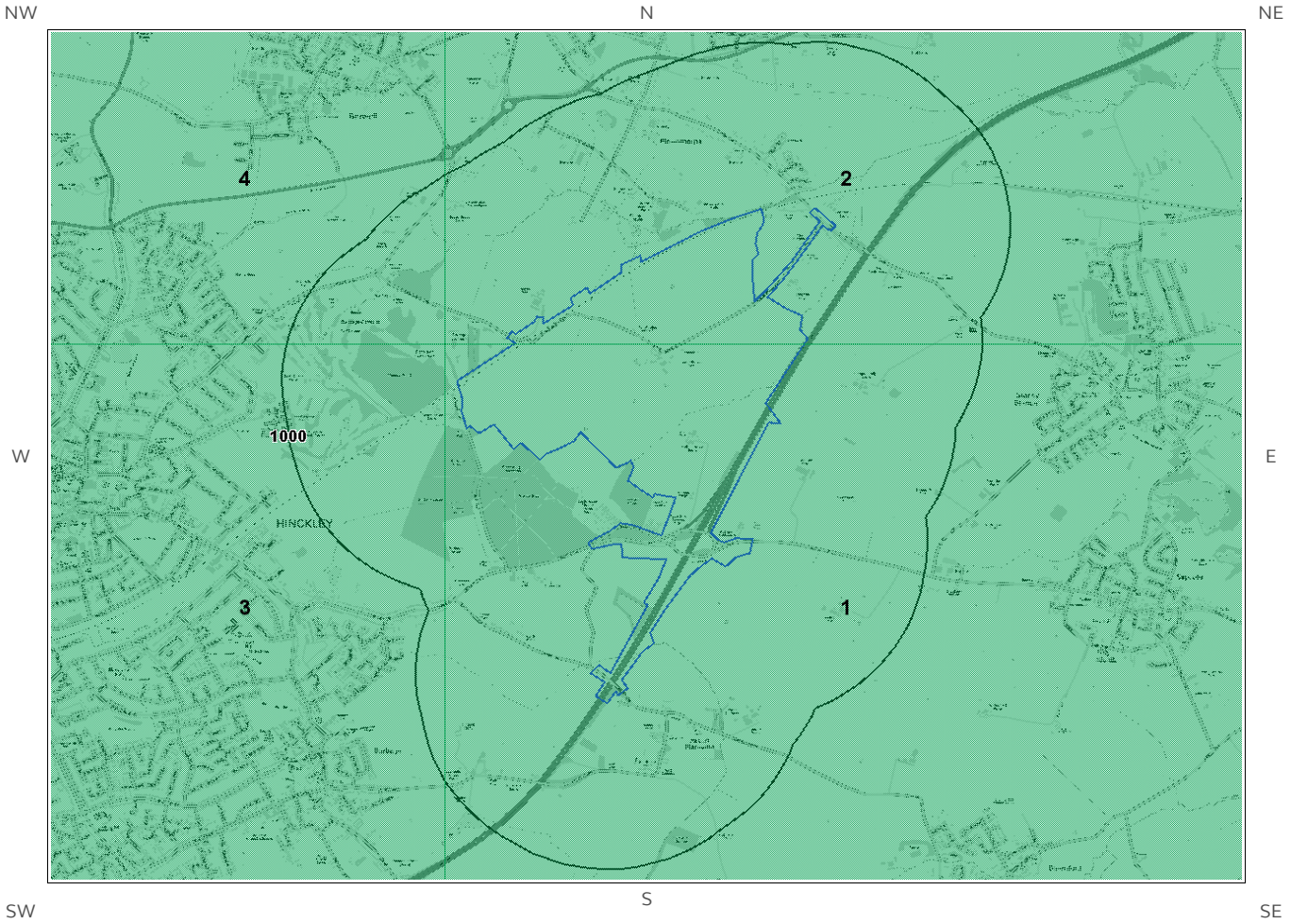
Section 6: Natural Ground Subsidence	On-site
6.1 Shrink-Swell Clay	Low
6.2 Landslides	Very Low
6.3 Ground Dissolution of Soluble Rocks	Negligible
6.4 Compressible Deposits	Moderate
6.5 Collapsible Deposits	Very Low
6.5 Running Sand	Low

Section 7: Borehole Records	On-site	0-50m	51-250
7 BGS Recorded Boreholes	28	5	30

Section 8: Estimated Background Soil Chemistry	On-site	0-50m	51-250
8 Records of Background Soil Chemistry	69	7	0

Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500
9.1 Tunnels	0	0	0	Not Searched
9.2 Historical Railway and Tunnel Features	9	0	2	Not Searched
9.3 Historical Railways	0	0	0	Not Searched
9.4 Active Railways	6	4	2	Not Searched
9.5 Railway Projects	0	0	0	0

1:10,000 Scale Availability



1_10,000 Availability Legend

Site Outline

Full Coverage

Partial Coverage

No Coverage

50
250
Search Buffers (m)

Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

ID	Distance	Artificial Coverage	Superficial Coverage	Bedrock Coverage	Mass Movement Coverage
1	0.0	Some deposits are mapped	Full	Full	No coverage
2	0.0	Some deposits are mapped	Full	Full	No coverage
3	70.0	Some deposits are mapped	Full	Full	No coverage
4	225.0	Some deposits are mapped	Full	Full	No coverage

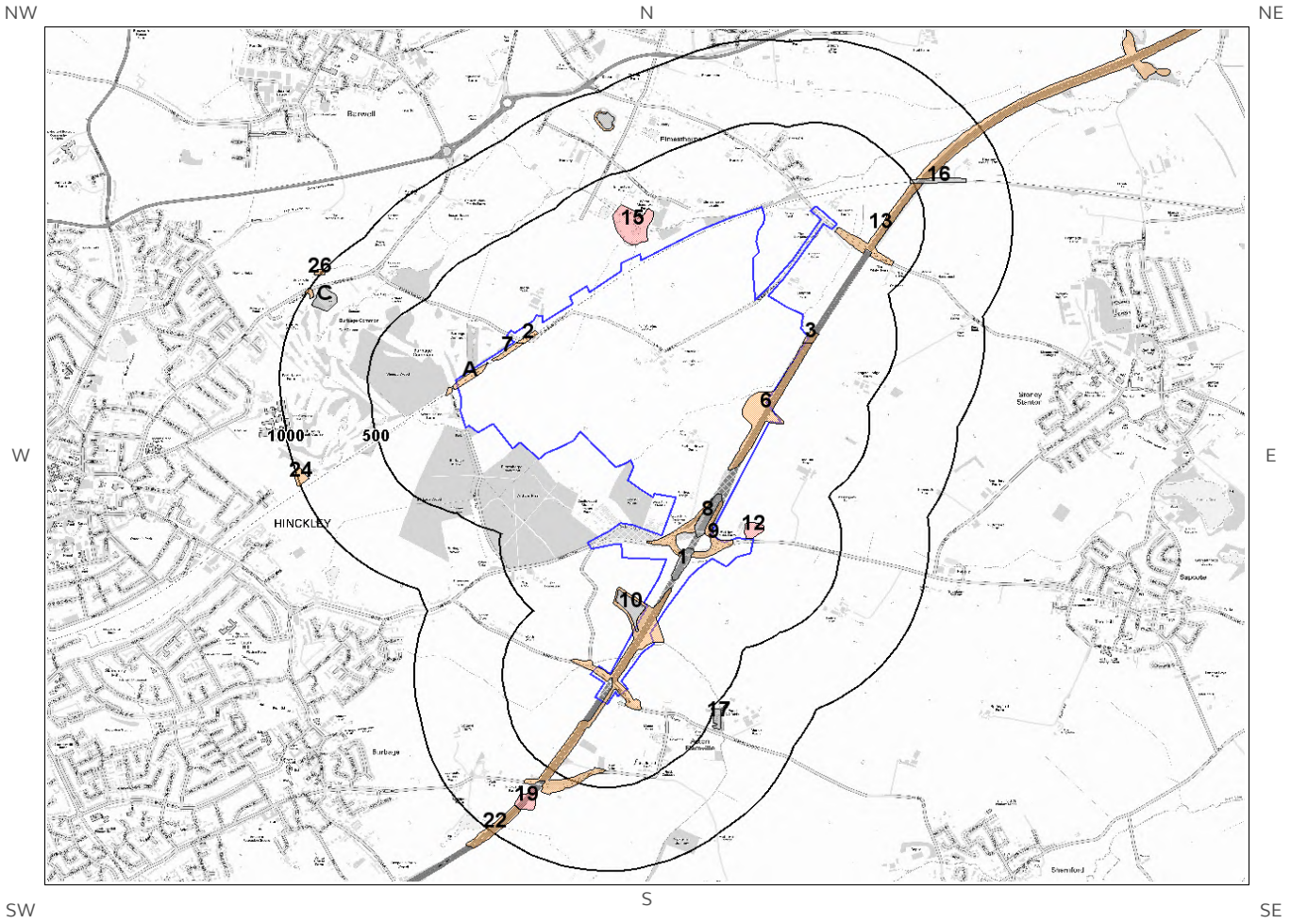
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

Geology	Full Coverage	Partial Coverage	No Coverage
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage

1 Geology (1:10,000 scale).

1.1 Artificial Ground map (1:10,000 scale)



Artificial Ground Legend

Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

1. Geology 1:10,000 scale

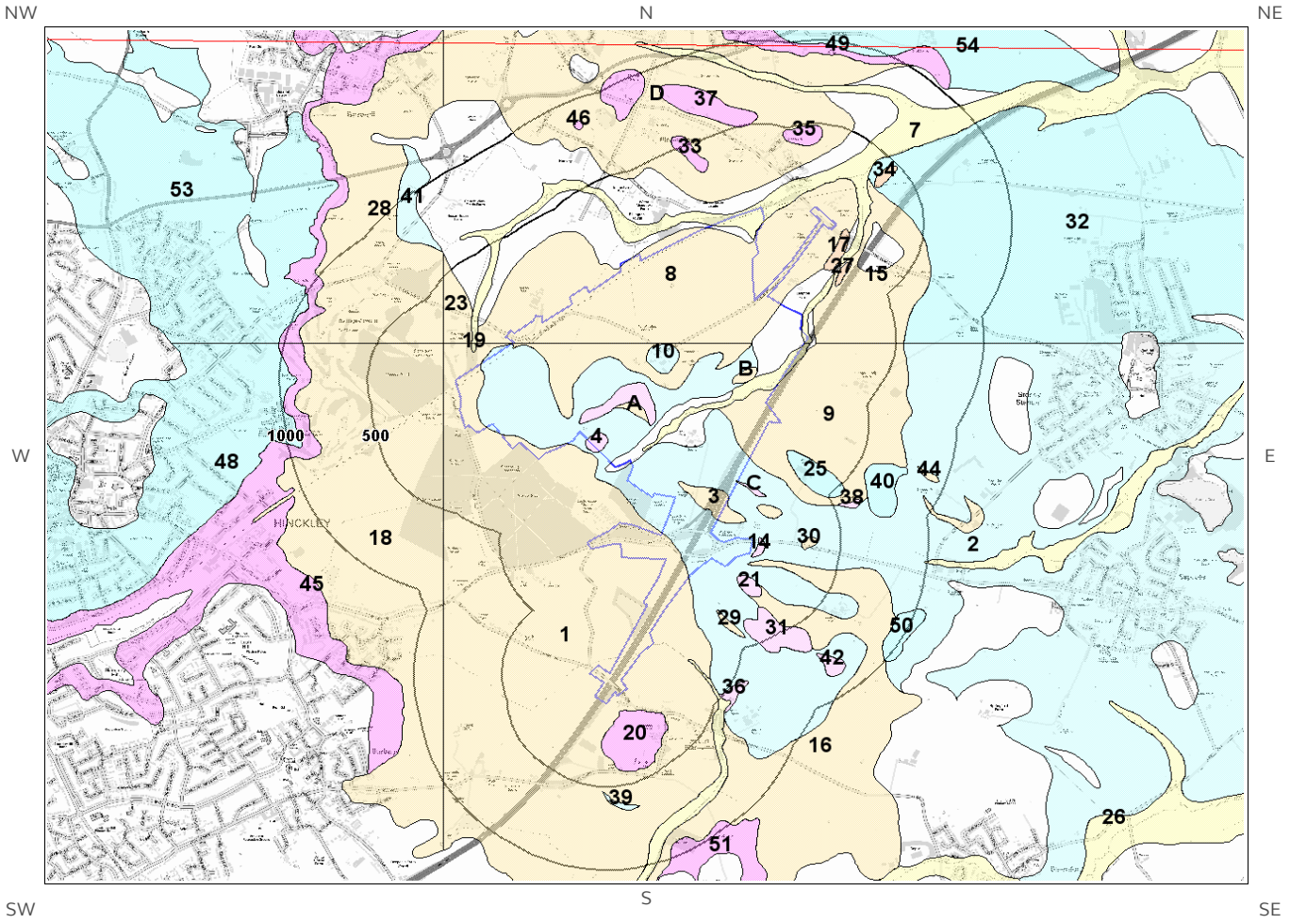
1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	WGR-VOID	Worked Ground (Undivided)	Void
2	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4A	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	0.0	On Site	WGR-VOID	Worked Ground (Undivided)	Void
9	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	0.0	On Site	WGR-VOID	Worked Ground (Undivided)	Void
11	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	3.0	N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	19.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14A	35.0	W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	60.0	N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
16	483.0	NE	WGR-VOID	Worked Ground (Undivided)	Void
17	485.0	E	WGR-VOID	Worked Ground (Undivided)	Void

1.2 Superficial Deposits and Landslips map (1:10,000 scale)



Artificial Ground Legend

Site Outline

500
1000
Search Buffers (m)

1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
2	0.0	On Site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
3	0.0	On Site	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
4	0.0	On Site	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
5A	0.0	On Site	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
6B	0.0	On Site	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
7	0.0	On Site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
8	0.0	On Site	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
9	0.0	On Site	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
10	0.0	On Site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
11A	0.0	On Site	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
12C	0.0	On Site	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
13B	0.0	On Site	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
14	11.0	SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
15	38.0	E	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
16	52.0	S	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
17	54.0	SE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
18	70.0	W	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
19	81.0	NW	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
20	87.0	SE	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
21	89.0	SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
22D	115.0	N	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
23	134.0	NW	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
24C	155.0	NE	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
25	167.0	S	ODT-DMTN	Oadby Member - Diamicton	Diamicton
26	216.0	SE	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
27	216.0	SE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
28	225.0	NW	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
29	242.0	SE	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
30	278.0	E	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
31	310.0	SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
32	310.0	NE	ODT-DMTN	Oadby Member - Diamicton	Diamicton
33	316.0	N	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
34	318.0	NE	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel
35	371.0	N	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
36	469.0	SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
37	496.0	N	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel

1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

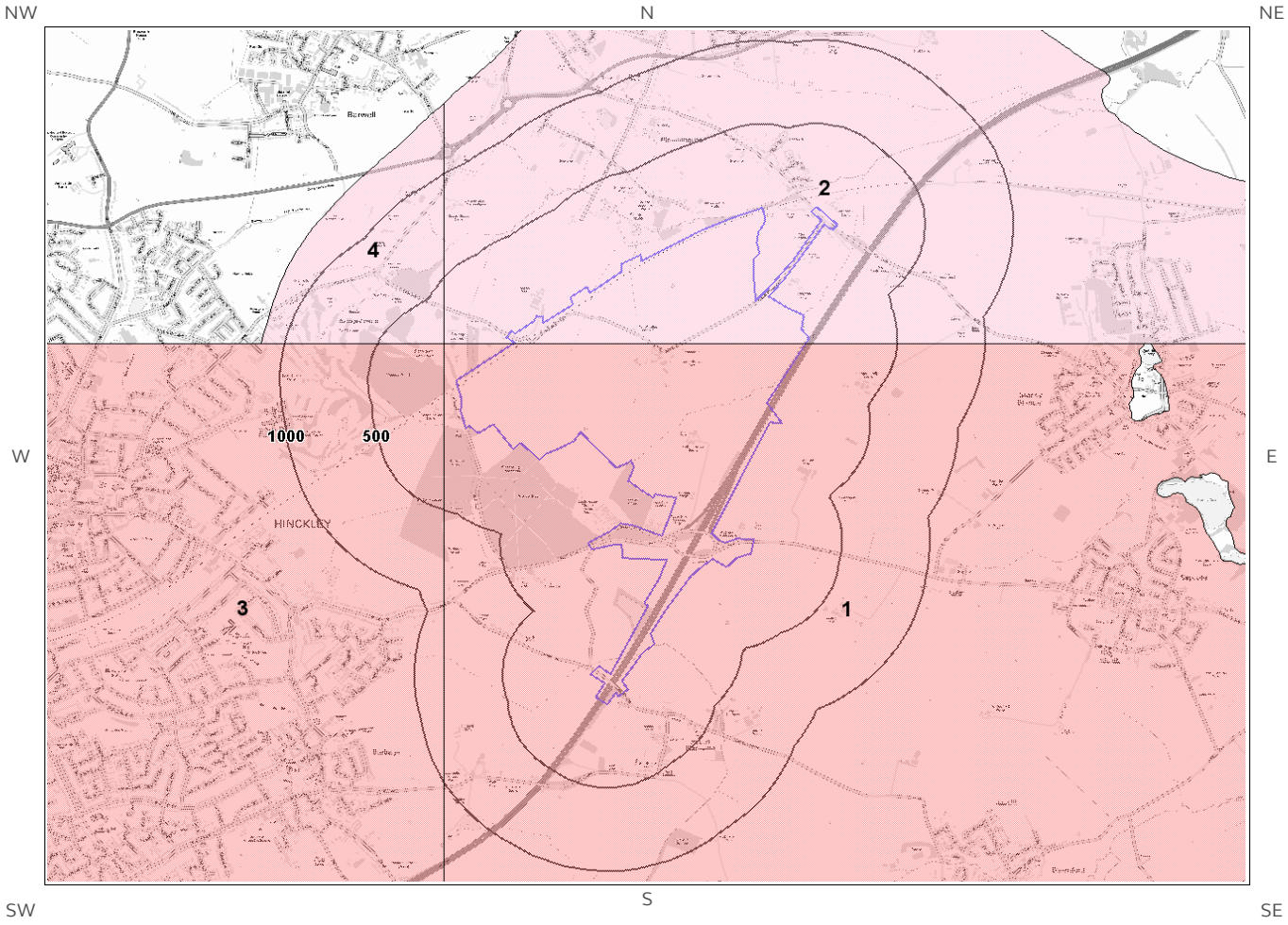
No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.3 Bedrock and linear features map (1:10,000 scale)



Bedrock and linear features Legend

Site Outline

500
1000
Search Buffers (m)

1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
2	0.0	On Site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
3	70.0	W	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
4	225.0	NW	EDW-MDST	Edwalton Member - Mudstone	Carnian Age

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? No

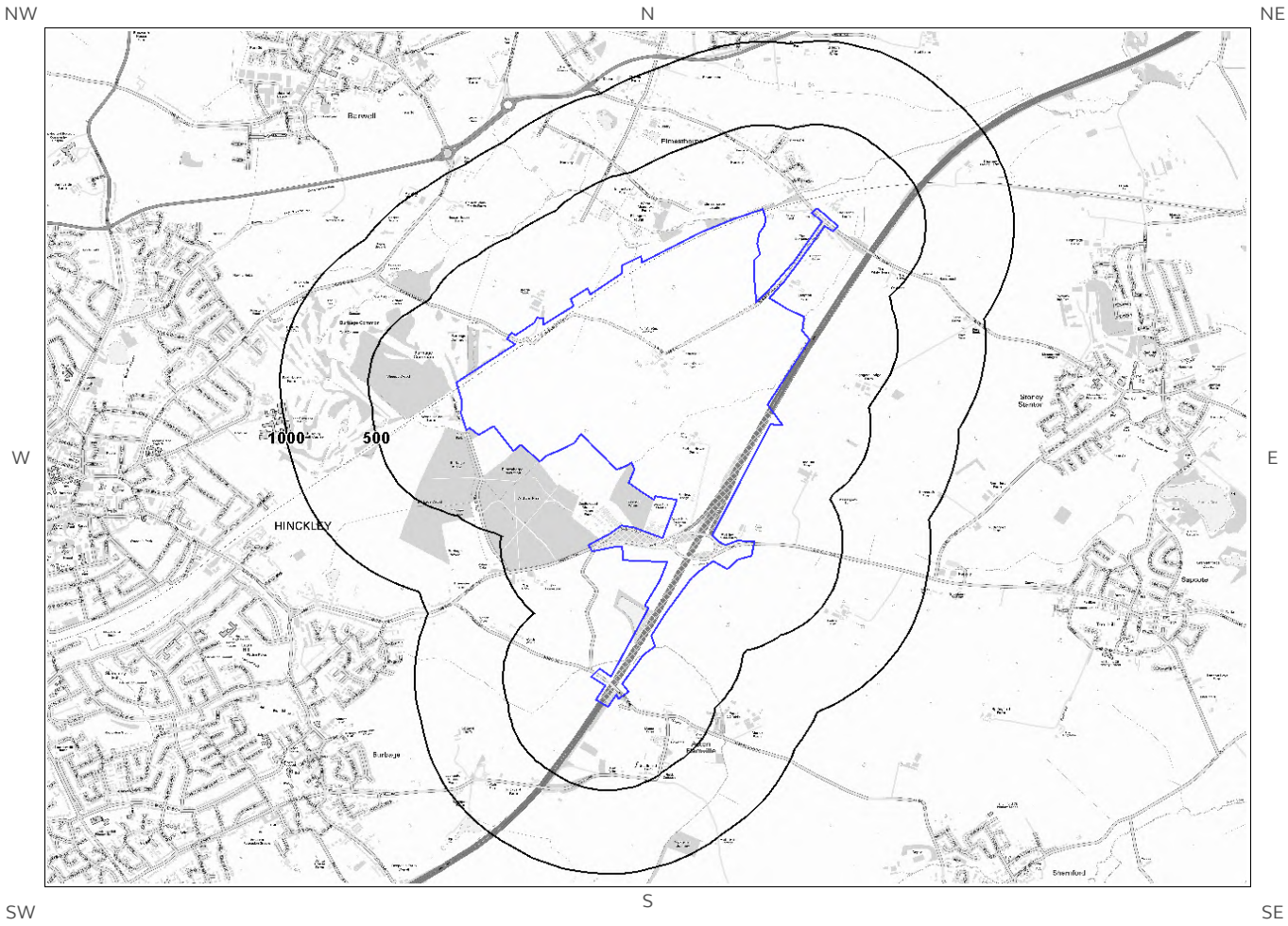
Database searched and no data found at this scale.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2 Geology 1:50,000 Scale

2.1 Artificial Ground map



Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 169

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? No

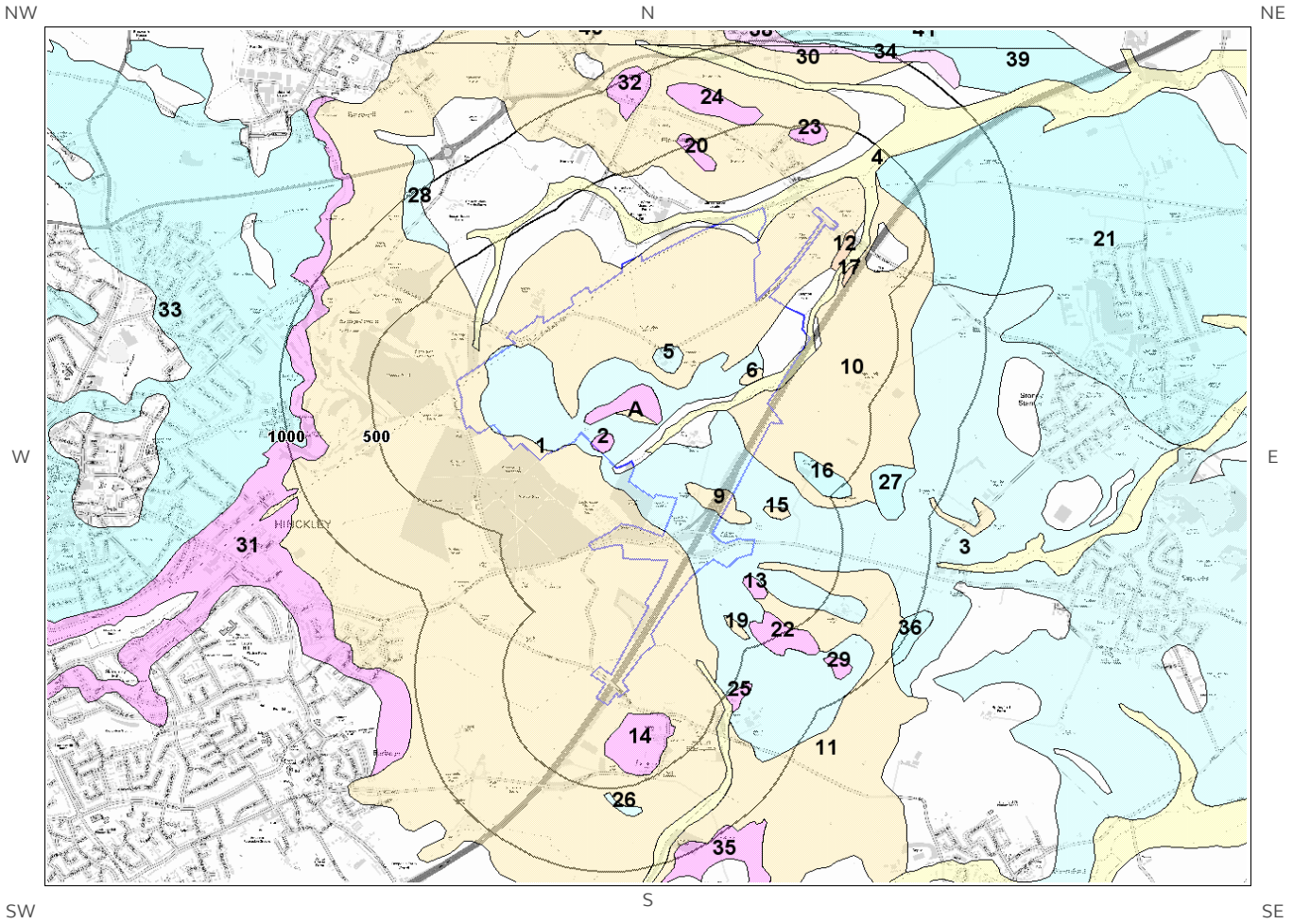
Database searched and no data found.

2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

2.2 Superficial Deposits and Landslips map (1:50,000 scale)



Site Outline

500
1000
Search Buffers (m)

2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
2	0.0	On Site	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
3	0.0	On Site	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
4	0.0	On Site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
5	0.0	On Site	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
6	0.0	On Site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
7A	0.0	On Site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
8A	0.0	On Site	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
9	0.0	On Site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
10	0.0	On Site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
11	66.0	SE	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
12	66.0	SE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
13	105.0	SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
14	109.0	SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
15	166.0	NE	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
16	180.0	S	ODT-DMTN	OADBY MEMBER	DIAMICTON
17	236.0	SE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
18	250.0	E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
19	281.0	SE	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
20	305.0	N	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
21	333.0	NE	ODT-DMTN	OADBY MEMBER	DIAMICTON
22	337.0	SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
23	373.0	N	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	Low	Very Low
0.0	On Site	Intergranular	Very High	High
0.0	On Site	Mixed	High	Low
0.0	On Site	Mixed	Low	Very Low
0.0	On Site	Intergranular	Very High	High
0.0	On Site	Mixed	High	Low
0.0	On Site	Mixed	High	Low
0.0	On Site	Mixed	Low	Very Low
0.0	On Site	Intergranular	High	Very Low
0.0	On Site	Mixed	Low	Very Low
0.0	On Site	Intergranular	High	Very Low
0.0	On Site	Mixed	Low	Very Low
0.0	On Site	Mixed	Low	Very Low

2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

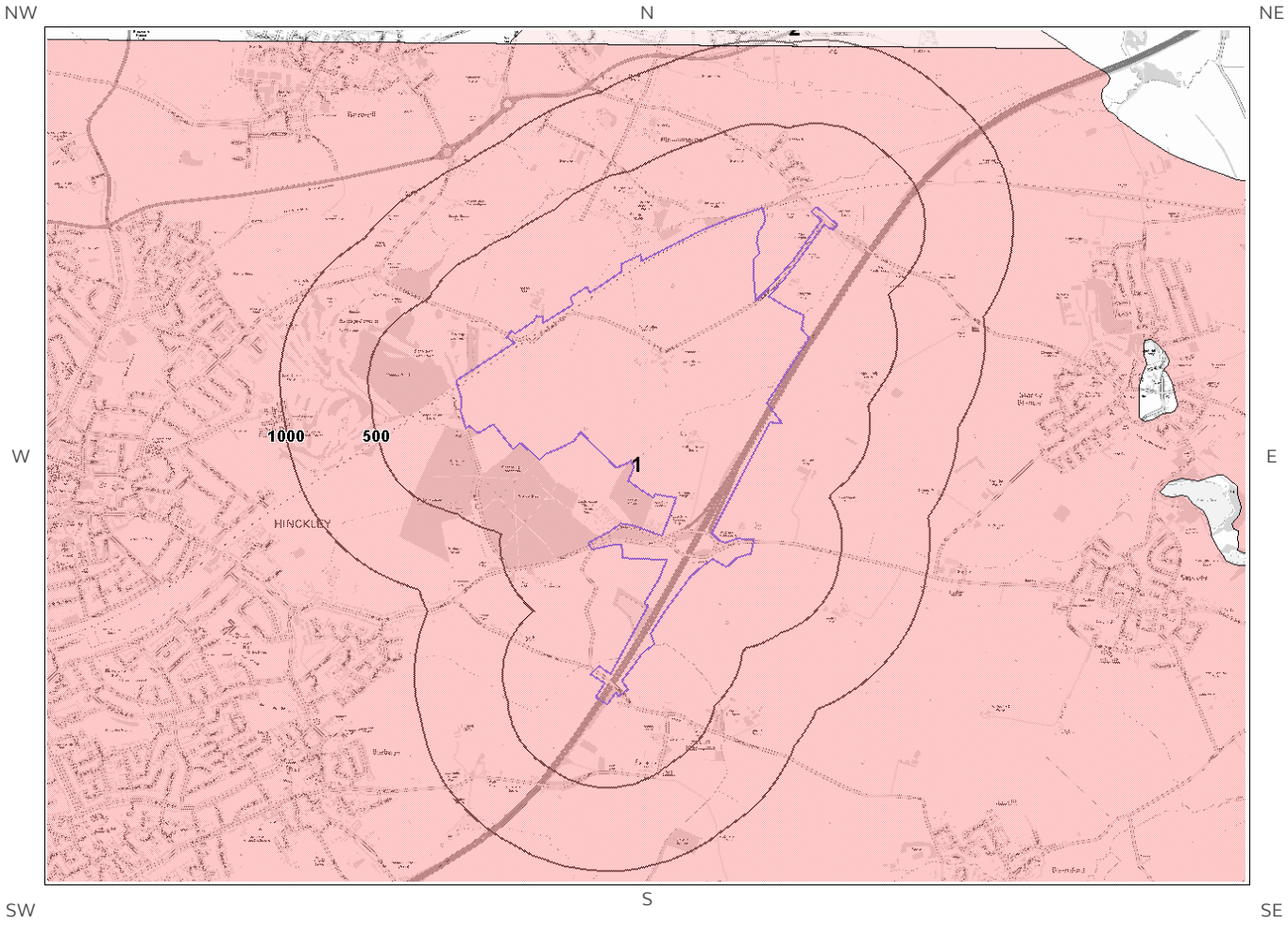
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

2.3 Bedrock and linear features map (1:50,000 scale)



Site Outline

500
1000
Search Buffers (m)

2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 169

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	Low	Low
0.0	On Site	Fracture	Low	Low

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

3 Radon Data

3.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

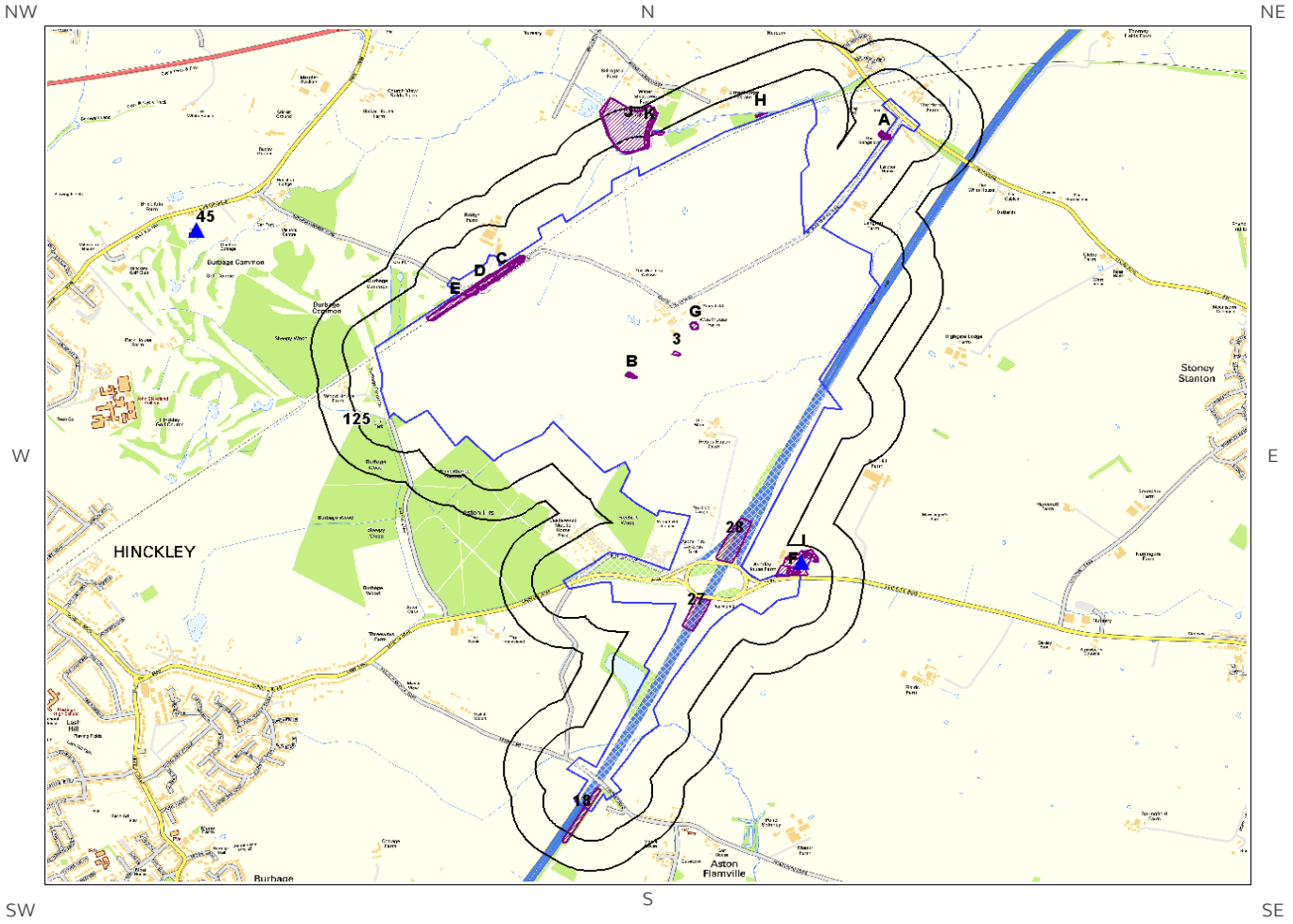
The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

---

4 Ground Workings map



Ground Workings Legend

Site Outline

125
250
Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings

4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Use	Date
1E	0.0	On Site	445385 294966	Cuttings	1901
2F	0.0	On Site	446717 293840	Unspecified Ground Workings	1901
3	0.0	On Site	446268 294755	Pond	1901
4G	0.0	On Site	446340 294868	Pond	1901
5A	0.0	On Site	447093 295672	Pond	1886
6B	0.0	On Site	446092 294661	Pond	1901
7C	0.0	On Site	445574 295095	Cuttings	1901
8A	0.0	On Site	447096 295666	Pond	1901
9B	0.0	On Site	446091 294663	Pond	1950
10B	0.0	On Site	446085 294663	Pond	1886
11C	0.0	On Site	445572 295089	Cuttings	1950
12C	0.0	On Site	445569 295097	Cuttings	1886
13D	0.0	On Site	445514 295057	Cuttings	1978
14D	0.0	On Site	445514 295057	Cuttings	1968
15D	0.0	On Site	445455 295015	Cuttings	1950
16E	0.0	On Site	445379 294965	Cuttings	1886
17E	0.0	On Site	445359 294946	Cuttings	1950
18	0.0	On Site	445892 292820	Unspecified Heap	1978
19F	0.0	On Site	446730 293836	Unspecified Ground Workings	1886
20F	0.0	On Site	446732 293872	Brick Works	1886
21B	0.0	On Site	446091 294663	Pond	1978

ID	Distance (m)	Direction	NGR	Use	Date
22B	0.0	On Site	446091 294663	Pond	1968
23E	0.0	On Site	445359 294946	Cuttings	1968
24E	0.0	On Site	445359 294946	Cuttings	1978
25A	0.0	On Site	447093 295663	Pond	1950
26G	0.0	On Site	446338 294870	Pond	1950
27	0.0	On Site	446346 293661	Cuttings	1978
28	0.0	On Site	446496 293972	Cuttings	1978
29F	1.0	N	446734 293842	Unspecified Pit	1950
30H	11.0	N	446606 295751	Pond	1978
31H	11.0	N	446606 295751	Pond	1968
32F	29.0	N	446748 293889	Sand Pit	1886
33I	63.0	N	446768 293908	Refuse Heap	1950
34I	63.0	N	446738 293905	Refuse Heap	1901
35J	66.0	N	446081 295706	Fish Ponds	1901
36J	70.0	N	446072 295711	Old Fish Ponds	1886
37I	75.0	N	446788 293904	Pond	1968
38I	75.0	N	446788 293904	Pond	1978
39K	97.0	N	446168 295698	Fish Ponds	1968
40K	97.0	N	446168 295698	Fish Ponds	1978
41K	110.0	NW	446195 295676	Pond	1978
42K	110.0	NW	446195 295676	Pond	1968

4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? No

Database searched and no data found.

4.3 Current Ground Workings

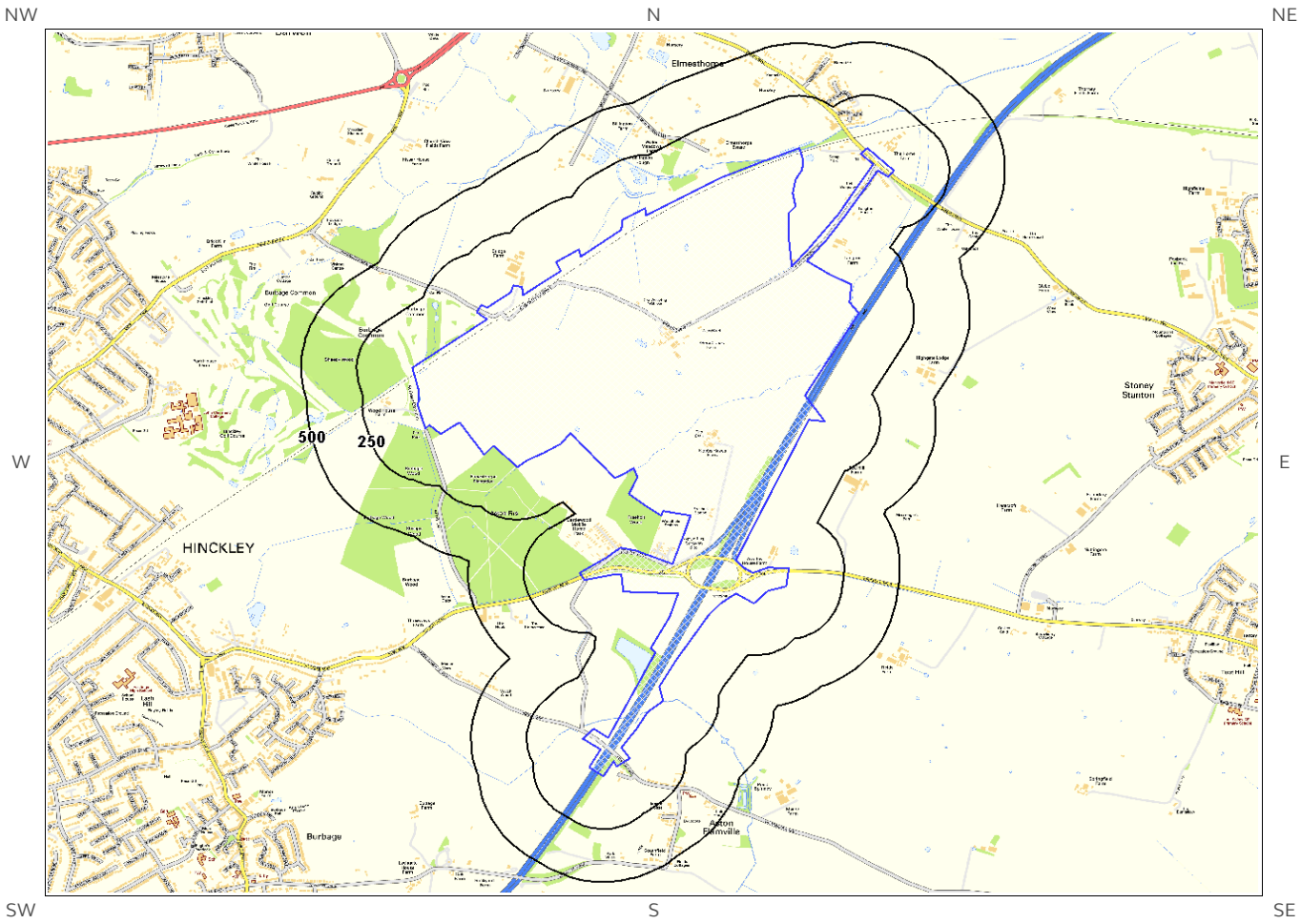
This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
43F	53.0	N	446760 293878	Clay & Shale	Longham Lodge Farm	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	751.0	SW	445447 292254	Clay & Shale	Lychgate Lane	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
45	860.0	NW	444365 295268	Clay & Shale	Outwood Brickyard	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

5 Mining, Extraction & Natural Cavities map



Mining, Extraction and Natural Cavities Legend

Site Outline

250
500
Search Buffers (m)

Historical Mining

Non-Coal Mining Cavities

Natural Cavities (point data)

Natural Cavities (polygon data)

Non-Coal Mining

Highly likely

Likely

Unlikely

Highly unlikely

Rare

5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.10 Clay Mining

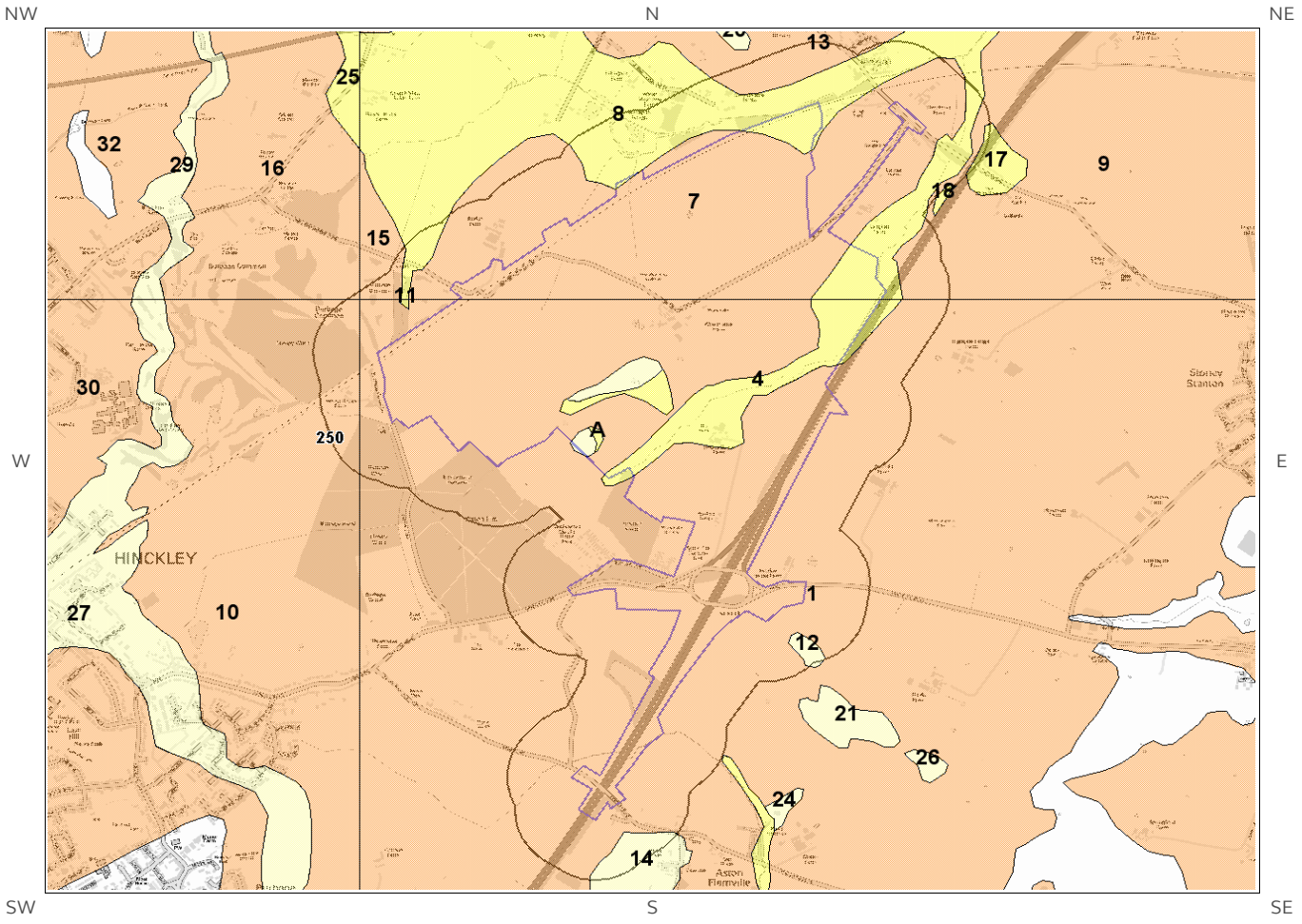
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

6 Natural Ground Subsidence

6.1 Shrink-Swell Clay map



Shrink Swell Clay Legend

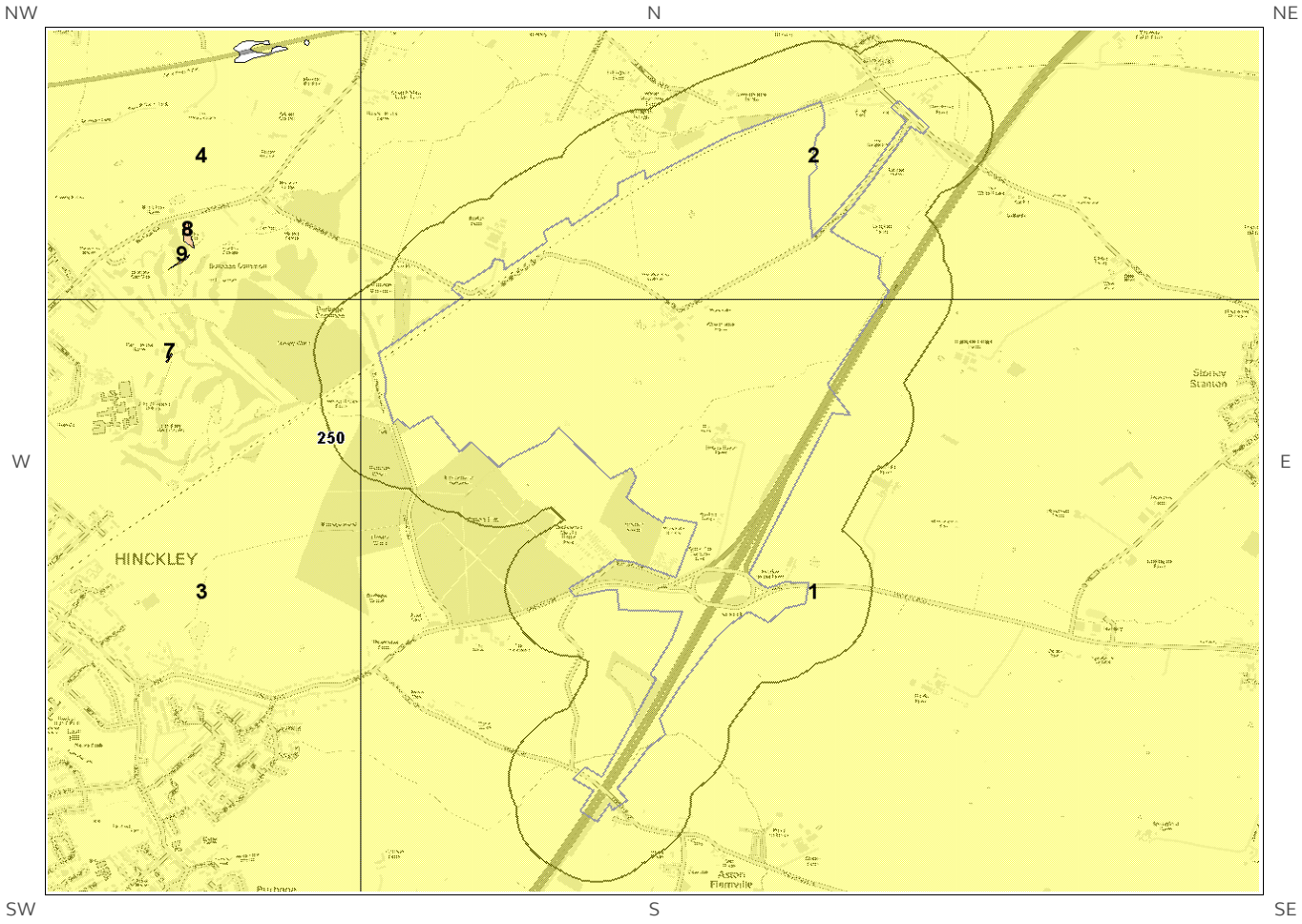
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

6.2 Landslides map



Landslides Legend

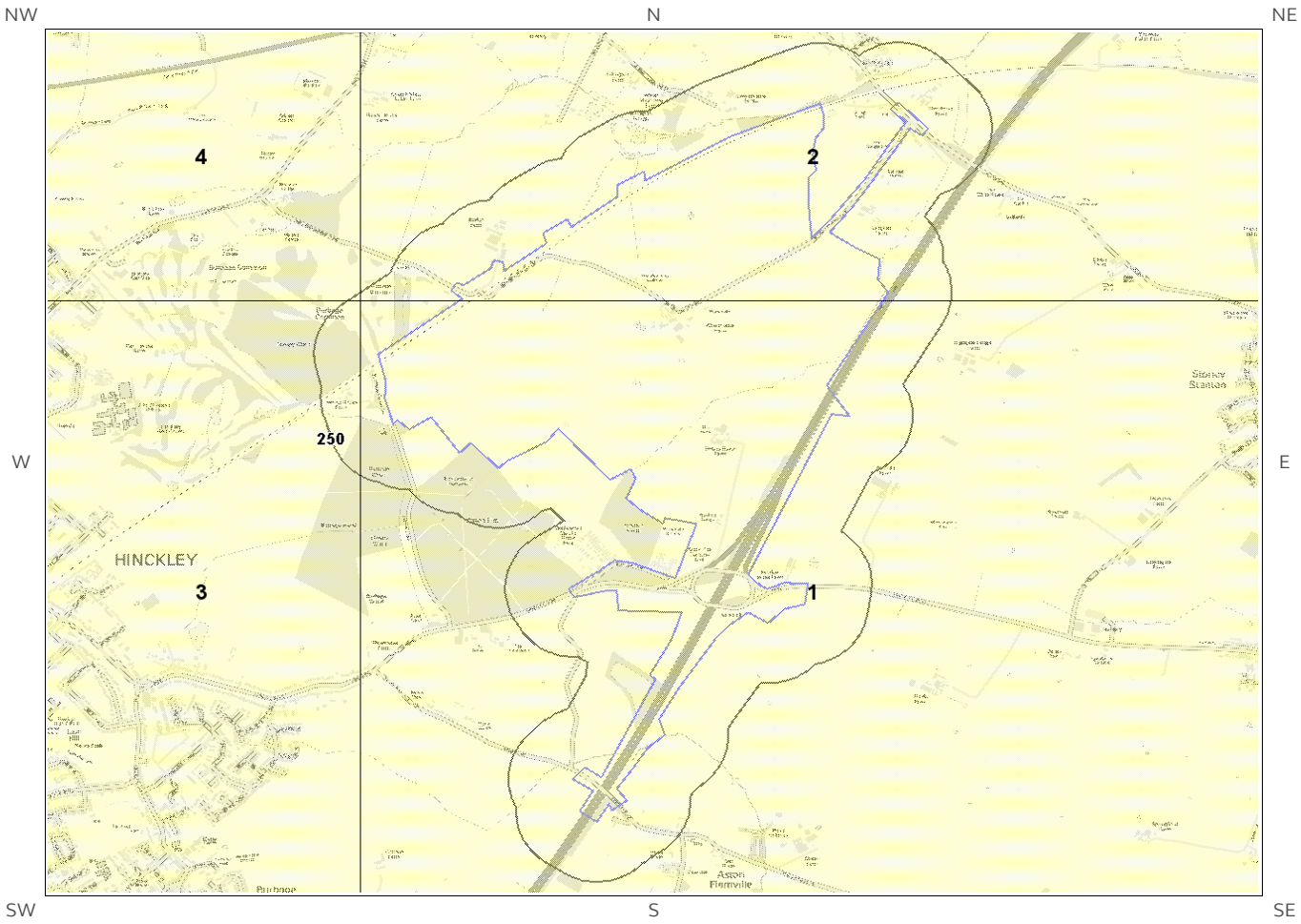
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

6.3 Ground Dissolution of Soluble Rocks map



Ground Dissolution Soluble Rocks Legend

Site Outline

125
250
Search Buffers (m)

No Data / Null

Negligible

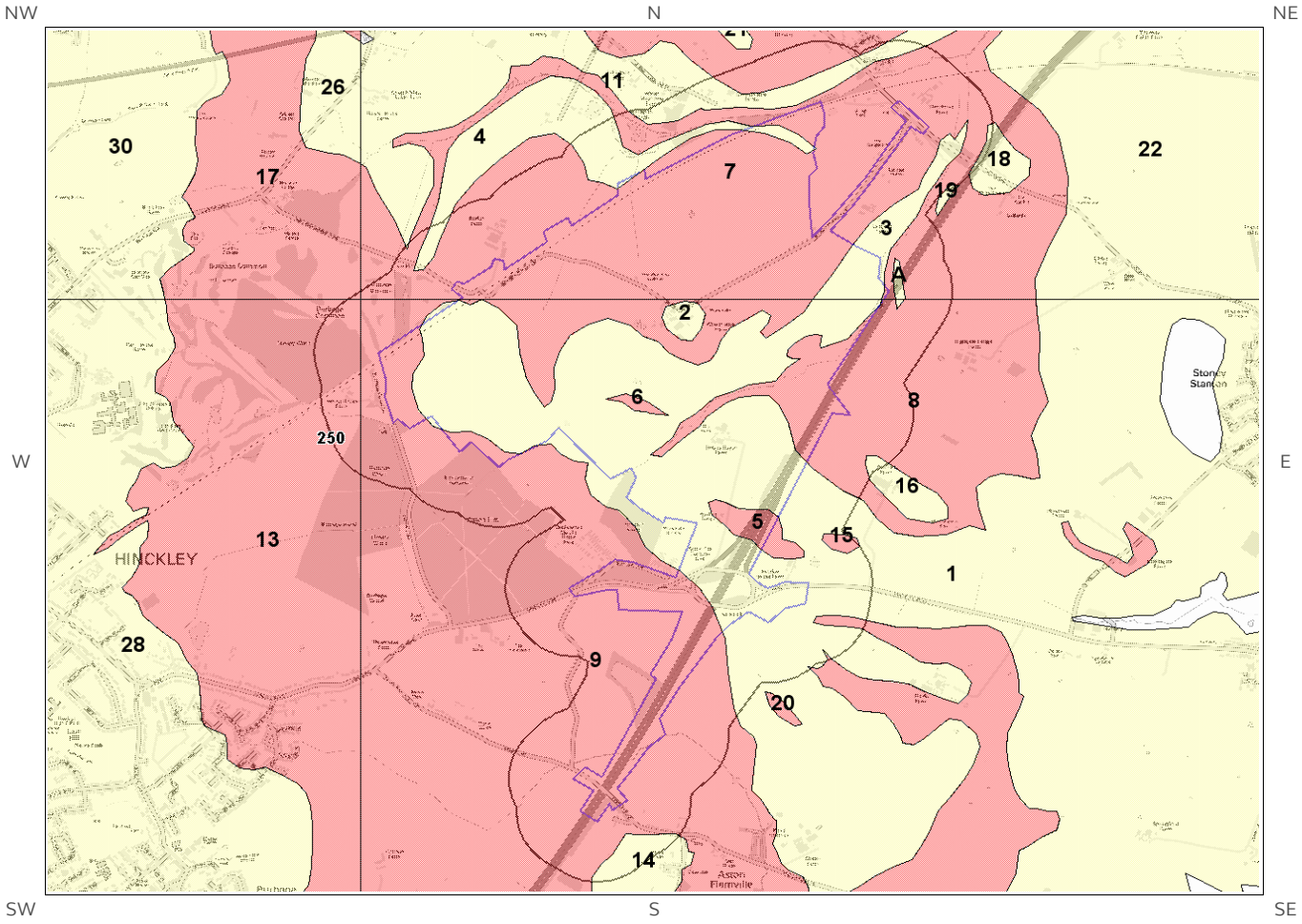
Very Low

Low

Moderate

High

6.4 Compressible Deposits map



Compressible Deposits Legend

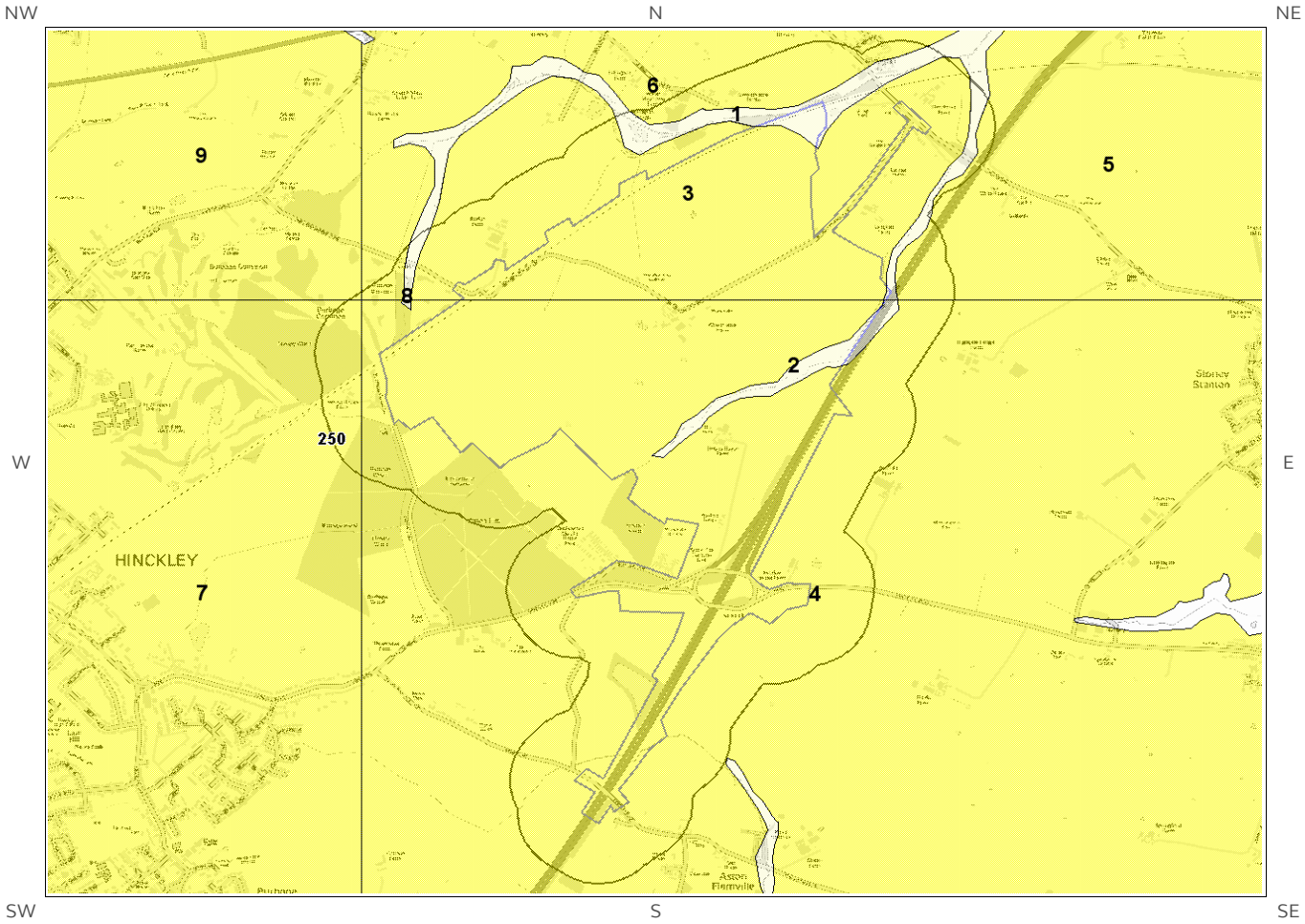
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

6.5 Collapsible Deposits map



Collapsible Deposits Legend

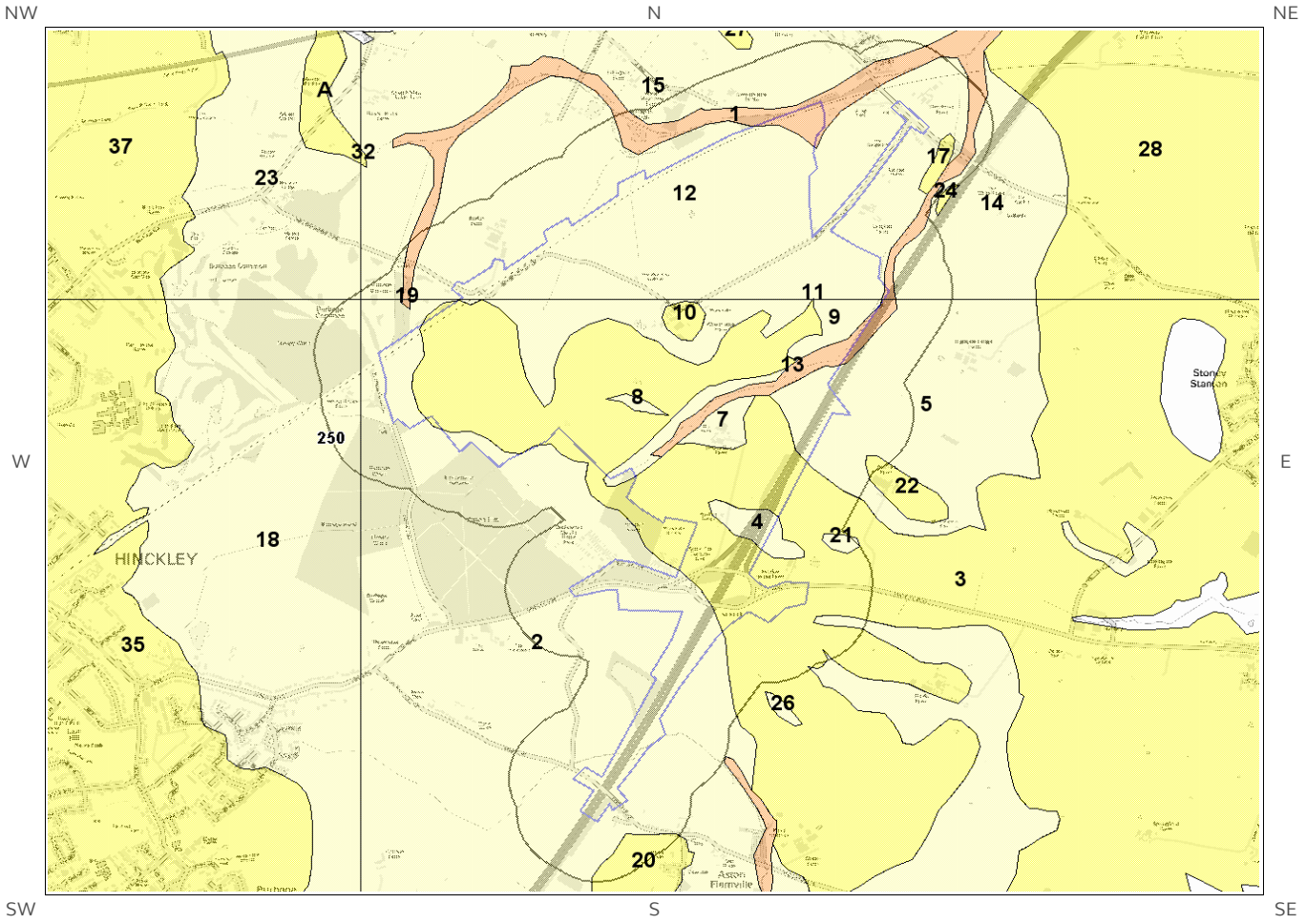
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

6.6 Running Sand map



Running Sand Legend

Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site*[*] boundary? Moderate

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.
2A	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.
3A	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
4	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.
5B	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

* This includes an automatically generated 50m buffer zone around the site

ID	Distance (m)	Direction	Hazard Rating	Details
6B	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
7	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.
8	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
2	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.
2	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
2	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
3	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
4	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
5	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
6	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
7	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

ID	Distance (m)	Direction	Hazard Rating	Details
8	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
9	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
10A	21.0	E	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
11	22.0	N	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
12A	39.0	SE	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
2	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
3	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
4	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
5	21.0	E	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
6	22.0	N	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

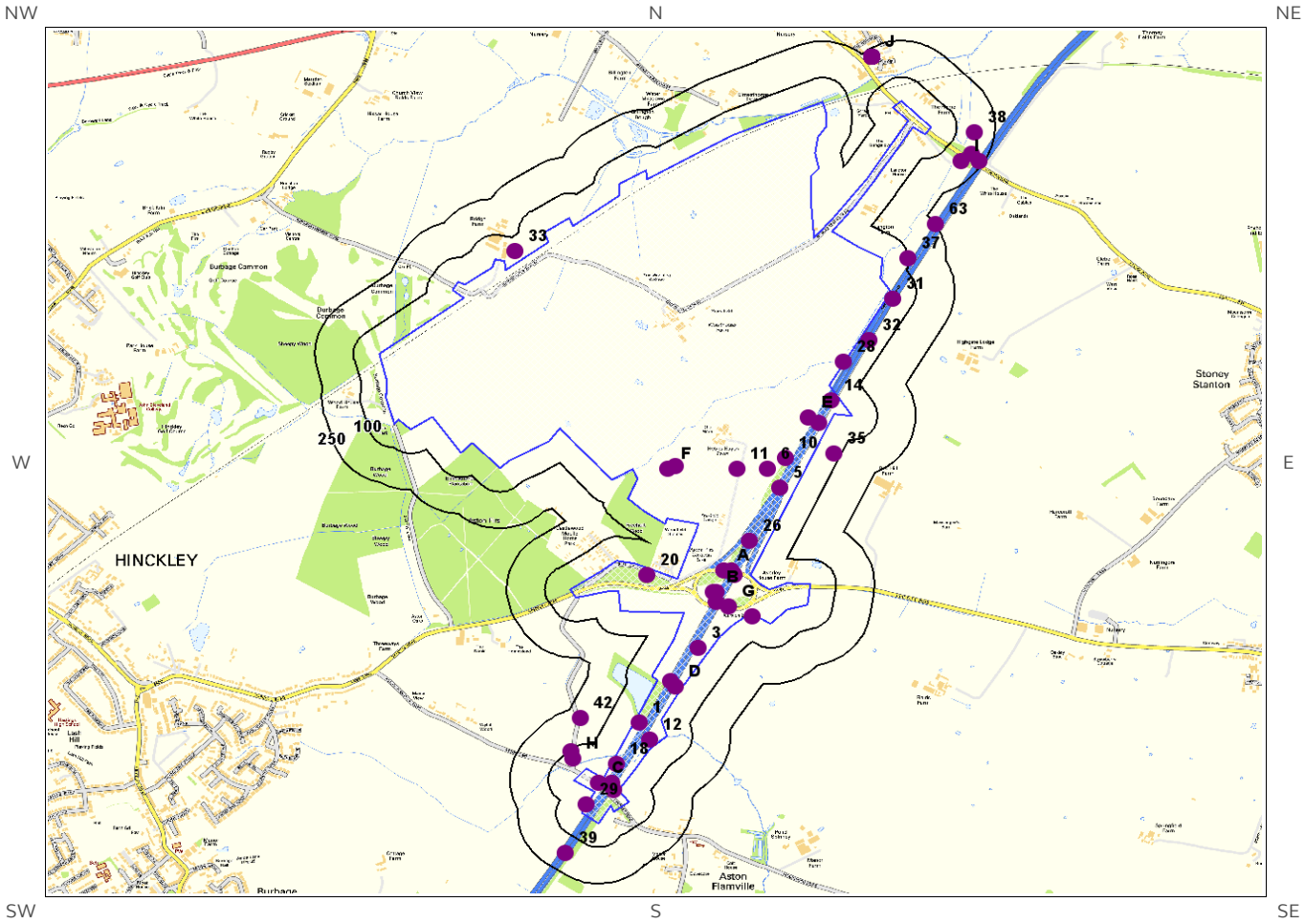
6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
2	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
3	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
4	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
5	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
6	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
7	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
8	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
9	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
10	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
11	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
12	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

ID	Distance (m)	Direction	Hazard Rating	Details
13	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
14	21.0	E	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
15	22.0	N	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

7 Borehole Records map



Borehole Records Legend

Site Outline

Borehole Locations

125
250
Search Buffers (m)

7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

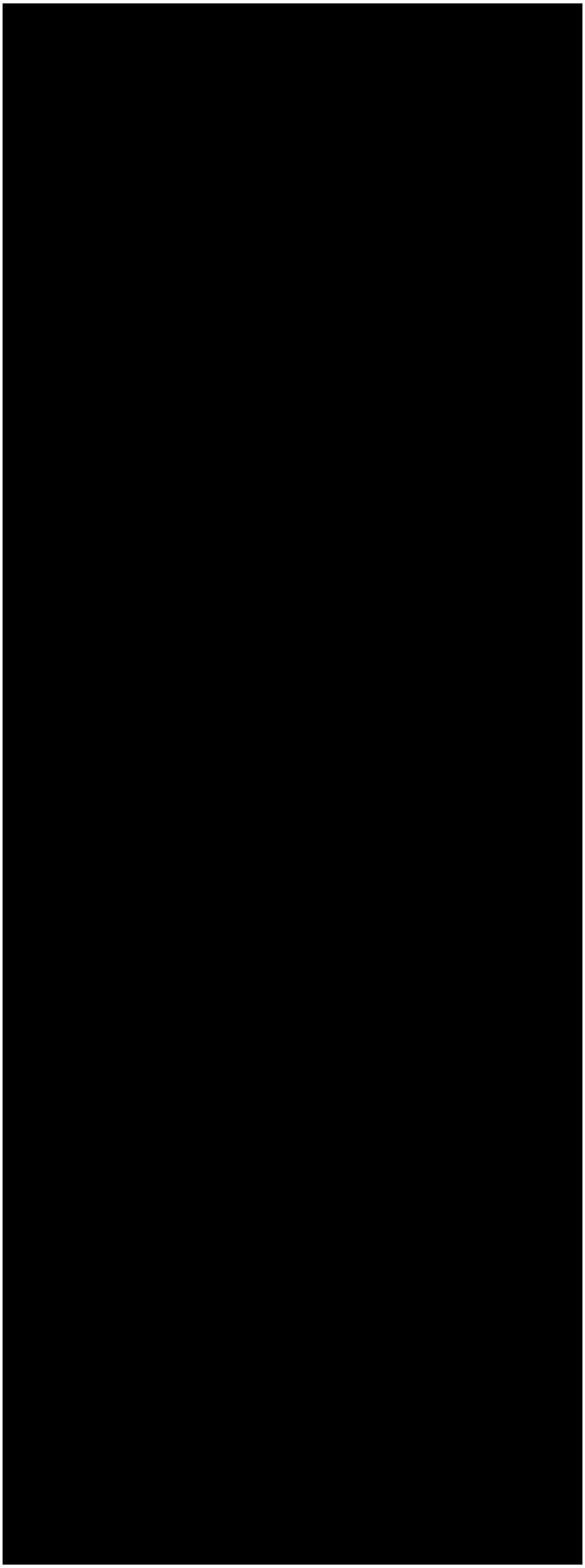
Records of boreholes within 250m of the study site boundary: 63

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	0.0	On Site	446090 293250	SP49SE30	16.0	COVENTRY-LEICESTER M69 BH241
2D	0.0	On Site	446230 293400	SP49SE9	16.0	COVENTRY-LEICESTER NEW ROUTE BH43
3	0.0	On Site	446320 293560	SP49SE33	17.4	COVENTRY-LEICESTER M69 BH243
4B	0.0	On Site	446380 293790	SP49SE12	10.0	COVENTRY-LEICESTER NEW ROUTE BH45A
5	0.0	On Site	446640 294220	SP49SE42	4.0	COVENTRY LEICESTER M69 TP253Z
6	0.0	On Site	446590 294300	SP49SE41	9.0	COVENTRY-LEICESTER M69 BH252
7E	0.0	On Site	446750 294510	SP49SE44	12.5	COVENTRY-LEICESTER M69 BH255
8A	0.0	On Site	446420 293880	SP49SE37	20.4	COVENTRY-LEICESTER M69 BH248
9A	0.0	On Site	446460 293860	SP49SE39	20.4	COVENTRY-LEICESTER M69 BH250
10	0.0	On Site	446660 294342	SP49SE43	4.0	COVENTRY LEICESTER M69 TP254Z
11	0.0	On Site	446470 294300	SP49SE13	9.0	COVENTRY-LEICESTER NEW ROUTE BH46
12	0.0	On Site	446130 293180	SP49SE31	12.0	COVENTRY-LEICESTER M69 BH242
13C	0.0	On Site	445930 293000	SP49SE25	10.0	COVENTRY-LEICESTER M69 BH236
14	0.0	On Site	446840 294580	SP49SE46	2.0	COVENTRY-LEICESTER M69 TH.K
15F	0.0	On Site	446200 294300	SP49SE58	504.44	SAPCOTE FREEHOLT
16B	0.0	On Site	446390 293790	SP49SE34	20.0	COVENTRY-LEICESTER M69 BH245
17G	0.0	On Site	446440 293730	SP49SE36	20.25	COVENTRY-LEICESTER M69 BH247
18	0.0	On Site	446000 293080	SP49SE29	5.0	COVENTRY-LEICESTER M69 BH240
19C	0.0	On Site	445980 293000	SP49SE26	16.0	COVENTRY-LEICESTER M69 BH237
20	0.0	On Site	446120 293860	SP49SE10	18.0	COVENTRY-LEICESTER NEW ROUTE BH44
21C	0.0	On Site	445990 292970	SP49SE27	12.45	COVENTRY-LEICESTER M69 BH238
22A	0.0	On Site	446450 293880	SP49SE38	20.0	COVENTRY-LEICESTER M69 BH249

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
23D	0.0	On Site	446210 293420	SP49SE32	2.0	COVENTRY-LEICESTER M69 TH244Z
24E	0.0	On Site	446790 294490	SP49SE45	12.0	COVENTRY-LEICESTER M69 BH256
25F	0.0	On Site	446230 294310	SP49SE1	504.4	SAPCOTE FREEHOLT
26	0.0	On Site	446520 294000	SP49SE40	9.0	COVENTRY-LEICESTER M69 BH251
27B	0.0	On Site	446390 293750	SP49SE35	20.0	COVENTRY-LEICESTER M69 BH246
28	0.0	On Site	446890 294740	SP49SE15	8.0	COVENTRY-LEICESTER NEW ROUTE BH48
29	3.0	NW	445880 292910	SP49SE7	9.0	COVENTRY-LEICESTER NEW ROUTE BH41
30G	12.0	SW	446530 293690	SP49SE11	24.0	COVENTRY-LEICESTER NEW ROUTE BH45
31	22.0	SE	447080 295000	SP49NE62	6.1	COVENTRY-LEICESTER M69 258
32	35.0	SE	446990 294830	SP49SE47	6.5	COVENTRY-LEICESTER M69 BH257
33	46.0	NW	445600 295200	SP49NE125	109.5	BRIDGE FARM
34H	64.0	NW	445830 293100	SP49SE28	16.0	COVENTRY-LEICESTER M69 BH239
35	73.0	SE	446850 294360	SP49SE14	6.0	COVENTRY-LEICESTER NEW ROUTE BH47
36H	93.0	NW	445820 293130	SP49SE49	-1.0	ASTON FLAMVILLE
37	97.0	E	447140 295170	SP49NE11	6.5	COVENTRY-LEICESTER M69 BH259
38	168.0	E	447400 295690	SP49NE16	11.85	COVENTRY-LEICESTER M69 BH264
39	178.0	SW	445798 292710	SP49SE24	3.0	COVENTRY LEICESTER M69 TP235Z
40I	180.0	SE	447350 295570	SP49NE1	12.0	COVENTRY-LEICESTER NEW ROUTE BH50
41I	194.0	SE	447390 295600	SP49NE13	10.7	COVENTRY-LEICESTER M69 BH261
42	195.0	NW	445860 293270	SP49SE8	10.0	COVENTRY-LEICESTER NEW ROUTE BH42
43J	215.0	NW	447000 296000	SP49NE51	3.0	PROP HOUSING DEVELOPMENT TP 3
44J	215.0	NW	447000 296000	SP49NE56	2.0	PROP HOUSING DEVELOPMENT TP 8
45J	215.0	NW	447000 296000	SP49NE44	3.0	STATION ROAD ELMESTHORPE TP2
46J	215.0	NW	447000 296000	SP49NE48	3.0	STATION ROAD ELMESTHORPE TP6
47J	215.0	NW	447000 296000	SP49NE58	2.0	PROP HOUSING DEVELOPMENT TP 10
48J	215.0	NW	447000 296000	SP49NE47	3.0	STATION ROAD ELMESTHORPE TP5
49J	215.0	NW	447000 296000	SP49NE52	2.0	PROP HOUSING DEVELOPMENT TP 4
50J	215.0	NW	447000 296000	SP49NE50	3.0	PROP HOUSING DEVELOPMENT TP 2
51J	215.0	NW	447000 296000	SP49NE46	3.0	STATION ROAD ELMESTHORPE TP4

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
52J	215.0	NW	447000 296000	SP49NE45	3.0	STATION ROAD ELMESTHORPE TP3
53J	215.0	NW	447000 296000	SP49NE43	3.0	STATION ROAD ELMESTHORPE TP1
54J	215.0	NW	447000 296000	SP49NE54	3.0	PROP HOUSING DEVELOPMENT TP 6
55J	215.0	NW	447000 296000	SP49NE53	3.0	PROP HOUSING DEVELOPMENT TP 5
56J	215.0	NW	447000 296000	SP49NE55	2.0	PROP HOUSING DEVELOPMENT TP 7
57J	215.0	NW	447000 296000	SP49NE59	9.0	PROP HOUSING DEVELOPMENT 1
58J	215.0	NW	447000 296000	SP49NE60	8.0	PROP HOUSING DEVELOPMENT 2
59J	215.0	NW	447000 296000	SP49NE61	7.0	PROP HOUSING DEVELOPMENT 3
60J	215.0	NW	447000 296000	SP49NE57	2.0	PROP HOUSING DEVELOPMENT TP 9
61J	215.0	NW	447000 296000	SP49NE49	3.0	PROP HOUSING DEVELOPMENT TP 1
62I	236.0	SE	447420 295570	SP49NE14	16.0	COVENTRY-LEICESTER M69 BH262
63	250.0	NE	447250 295310	SP49NE12	4.0	COVENTRY-LEICESTER M69 TP2602

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.



8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary: 76

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
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0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
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0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
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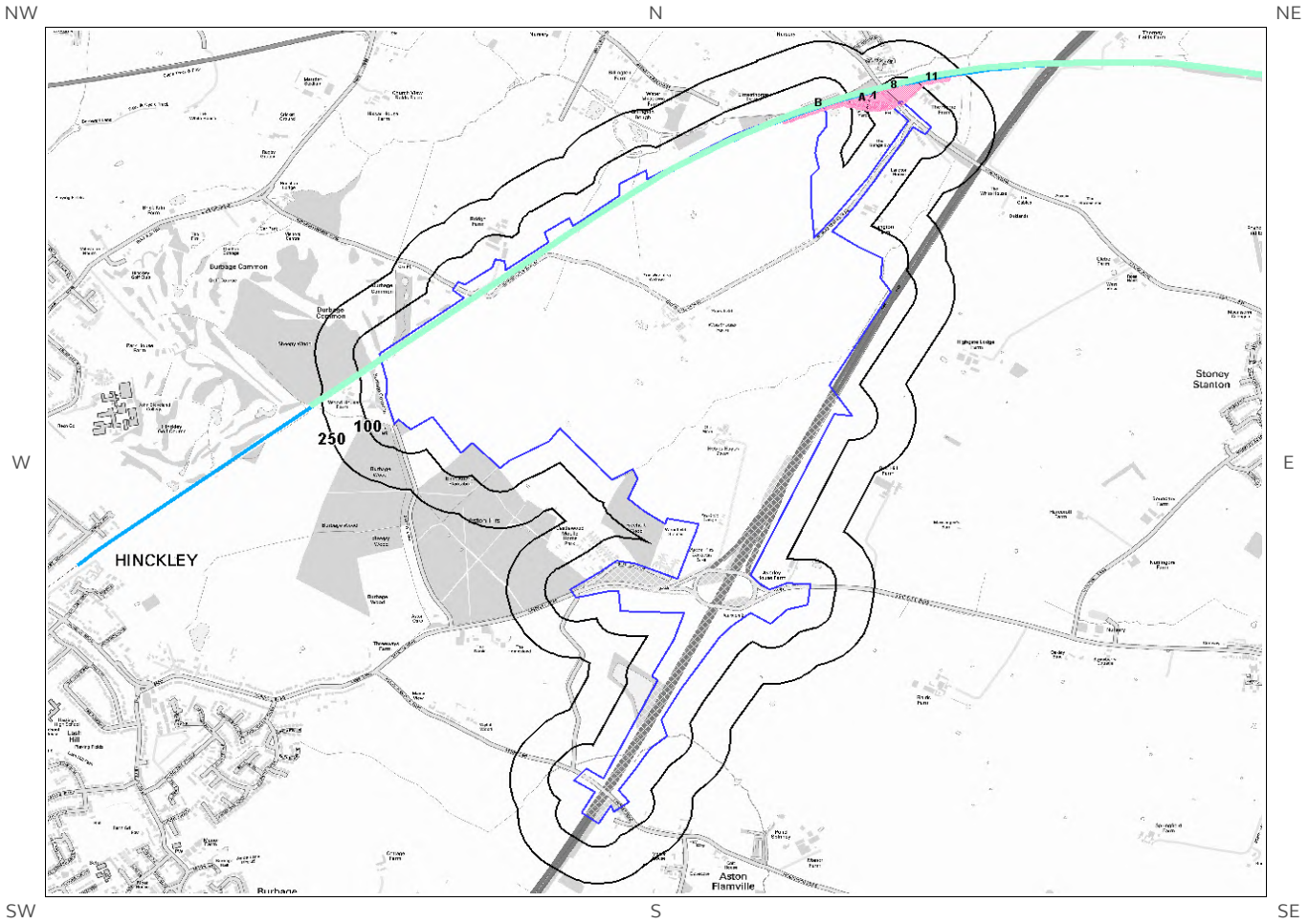
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
12.0	W	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
21.0	E	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
22.0	N	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
25.0	NW	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
27.0	N	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
38.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
39.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

- Site Outline
- 250 / 500 — Search Buffers (m)
- Underground or Partially Underground Railway / Subway System
- Railway Tunnel (OS Mapping)
- Abandoned or Dismantled Railway (OpenStreetMap)
- Railway Track (OS Mapping)
- Railway Track (OpenStreetMap)
- High Speed 2
- High Speed 2 Revised Proposed Route
- Crossrail 1
- Railway and/or Tunnel Feature from Historical Mapping

9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
1	0	On Site	446978 295828	Railway Sidings	1950
2A	0	On Site	446943 295832	Railway Sidings	1968
3A	0	On Site	446943 295832	Railway Sidings	1978
4A	0	On Site	446839 295806	Railway Sidings	1886
5A	0	On Site	446910 295815	Railway Sidings	1886
6A	0	On Site	446833 295797	Railway Sidings	1904

ID	Distance (m)	Direction	NGR	Details	Date
7B	0	On Site	446770 295796	Railway Sidings	1886
9B	0	On Site	446768 295795	Railway Sidings	1962
10	0	On Site	446807 295796	Railway Sidings	1962
8	60	N	447088 295876	Railway Sidings	1886
11	60	N	447205 295903	Railway Sidings	1962

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? Yes

Have any active railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Name	Type
0	On Site	Birmingham to Peterborough Line	Rail
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Birmingham to Peterborough Line	Rail
21	W	Birmingham to Peterborough Line	Rail
21	W	Birmingham to Peterborough Line	Rail
43	W	Birmingham to Peterborough Line	Rail
43	W	Birmingham to Peterborough Line	Rail
67	N	Not given	Multi Track
67	N	Not given	Multi Track

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project?	No
Is the study site within 500m of the route of the Crossrail 1 rail project?	No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a ***Groundsure HS2 and Crossrail 1 Report****.*

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

Contact Details

Hydrock

Telephone: 01752 347 515

[redacted]

British Geological Survey Enquiries

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Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:**enquiries@bgs.ac.uk**
Web[redacted]
BGS Geological Hazards Reports and general geological enquiries

British Gypsum

British Gypsum Ltd
East Leake
Loughborough
Leicestershire
LE12 6HX

The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Public Health England

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
https://www.gov.uk/government/organisations/public-health-england
Email: **enquiries@phe.gov.uk**
Main switchboard: 020 7654 8000

Johnson Poole & Bloomer Limited

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DY5 3LH
Tel: +44 (0) 1384 262 000
Email:**enquiries.gs@jpb.co.uk**
Website:[redacted]

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS

Tel: 08456 050505
Website:[redacted]

Getmapping PLC

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444
Website[redacted]

Peter Brett Associates
Caversham Bridge House
Waterman Place
Reading
Berkshire RG1 8DN
Tel: +44 (0)118 950 0761 E-mail:**reading@pba.co.uk**
Website: [redacted]

Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:

Zetica UXB Risk Maps

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Map Centre: 446019,293766

LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary | **industry** | **UXO find**
transport | **dock** | **Luftwaffe targets**
utilities | **other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: [redacted]

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: [redacted]

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

UNEXPLODED BOMB RISK MAP

zeticaUXO

SITE LOCATION

Map Centre: 446271,294956

LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary | **industry** | **UXO find**
transport | **dock** | **Luftwaffe targets**
utilities | **other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: [redacted]

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: [redacted]

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

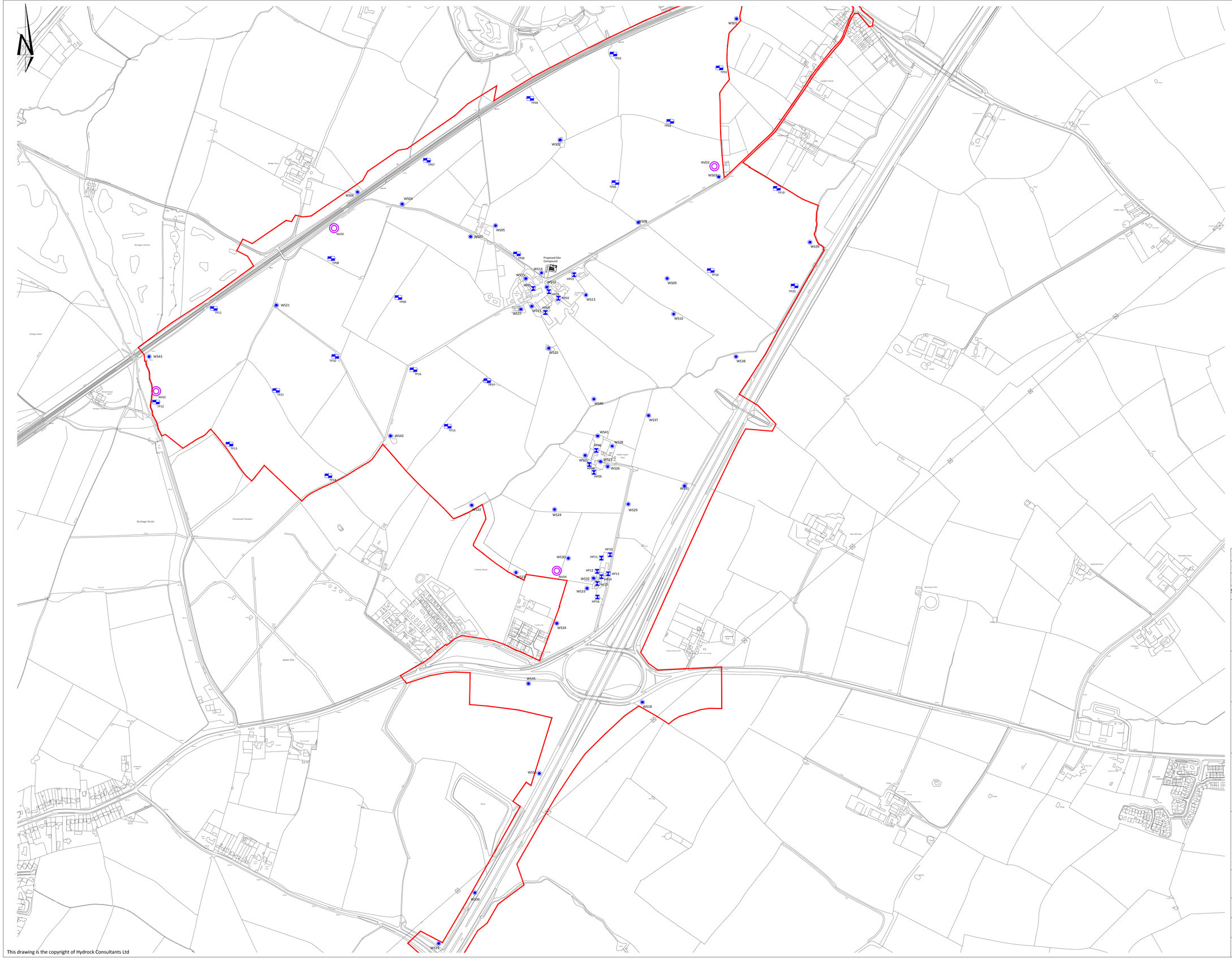
*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Reports prepared by others

Appendix E

Exploratory Hole Location Plan, Exploratory Hole Logs and Photographs

Exploratory Hole Location Plan



Notes:

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.
2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

Legend

- Site Boundary (approximate)
- TPXX — Hydrock Trial Pit
- WSXX — Hydrock Window Sampler Borehole
- HPXX — Hydrock Hand Dug Trial Pit
- NVXX — Noise Monitoring Locations

Status Rev	Date	Description	By	Ckd
P4-S2	04-05-18	NVXX reference numbers added	SD	JC
P3-S2	20-04-18	SI updated	SD	JC
P2-S2	19-03-18	Text removed	SD	CV

Architect :

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3 Hawthorn Park
Holdenby Road
Spratton, Northampton
NN6 8LD
T +44 (0)1604 842888
northampton@hydrock.com
[REDACTED]

Client :

db Symmetry

Project Title:

SRFI
HINCKLEY

Drawing Title:

Exploratory Hole Location Plan

Reference:

RFI-HYD-XX-ZZ-DR-GE-1003

Hydrock Job No: C-07700-C

Drawn	Checked	Scale @ A1	Date	Issue Date
SD	CV	1:5000	23/02/18	04/05/18

Revision: P4

Status: S2

Exploratory Hole Logs

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP01 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446344E, 294963N	**Scale:** 1:10
			Ground Level:	95.81m OD	
Client:	db Symmetry		**Date(s):**	08/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.40	95.41		Brown clayey sandy GRAVEL. Gravel is subangular to rounded, fine to coarse of quartz and limestone. (MADE GROUND)
	0.50	ES					Stiff red gravelly CLAY. Gravel is subangular to subrounded, fine to medium of quartz. (MADE GROUND)
				1.00	94.81		Red sandy clayey GRAVEL. Gravel is subrounded to rounded, fine to medium of quartz. (MADE GROUND)
				1.10	94.71		Stiff red gravelly CLAY. Gravel is subrounded to rounded, fine to medium of quartz and sandstone. (THRUSSINGTON MEMBER)
				1.20	94.61		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP02 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446287E, 294886N	**Scale:** 1:10
			Ground Level:	96.19m OD	
Client:	db Symmetry		**Date(s):**	08/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.20	95.99		Brown sandy clayey GRAVEL. Gravel is subangular to rounded, fine to coarse of quartz, limestone and brick. (MADE GROUND)
	0.30	ES					Reddish brown gravelly clayey SAND. Gravel is angular to subrounded, fine to coarse of brick, quartz and limestone. (MADE GROUND)
				0.50	95.69		Firm greenish grey, yellow and grey mottled CLAY with occasional sand pockets. (THRUSSINGTON MEMBER)
	0.80	D		0.80	95.39		Firm to stiff grey mottled red sandy CLAY. Sand is fine to medium. (THRUSSINGTON MEMBER)
				1.20	94.99		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP03
Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446262E, 294921N	**Scale:** 1:10
			Ground Level:	96.88m OD	
Client:	db Symmetry		**Date(s):**	08/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.20	96.68		Dark grey and yellow gravelly SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of quartz, limestone, sandstone and brick. (MADE GROUND)
	0.30	ES					
				0.45	96.43		Dark grey clayey gravelly SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of brick, quartz and limestone, cobble is brick. (MADE GROUND)
	0.50	ES					
	0.60	D		0.60	96.28		Dark grey gravelly sandy CLAY with medium cobble content. Gravel is angular to subangular, fine to coarse of concrete, brick and slate, cobble is brick. (MADE GROUND)
	1.00	D					Grey and brown gravelly CLAY with medium cobble content. Gravel is angular to subangular, fine to coarse of brick and concrete. Cobbles of brick and concrete. (MADE GROUND)
				1.20	95.68		End of Trial Pit at 1.20m

1.0

2.0

Remarks:	Backfilled with arisings.
Stability:	Sides remained vertical throughout
Groundwater:	Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP04 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446249E, 294863N	**Scale:** 1:10
			Ground Level:	96.39m OD	
Client:	db Symmetry		**Date(s):**	09/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.15	96.24		Stiff dark brown gravelly CLAY. Gravel is angular to subangular, fine to coarse of quartz and limestone. (MADE GROUND)
	0.30	ES					Brown gravelly sandy CLAY with medium cobbles content. Gravel is angular to subangular, fine to coarse of brick and concrete. Cobbles are angular to subangular of brick and concrete. (MADE GROUND)
				0.40	95.99		Brown gravelly sandy CLAY. Gravel is subangular to rounded, fine to coarse of quartz and brick. (MADE GROUND)
				0.60	95.79		Soft grey mottled red sandy CLAY. Sand is fine to medium. (THRUSSINGTON MEMBER)
				1.20	95.19		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP05
Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446227E, 294932N	**Scale:** 1:10
			Ground Level:	97.35m OD	
Client:	db Symmetry		**Date(s):**	09/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
							Brown clayey gravelly SAND. Gravel is angular to subangular, fine to coarse of brick and limestone. (MADE GROUND)
				0.20	97.15		Soft to firm reddish brown sandy gravelly CLAY with medium cobble content. Gravel is angular to subangular, fine to coarse of brick, concrete and limestone. Cobbles of brick. (MADE GROUND)
				0.67	96.68		End of Trial Pit at 0.67m

1.0

2.0

Remarks:	Pit terminated at 0.67m bgl due to encountering 300mm diameter blue plastic pipe. Backfilled with arisings.
Stability:	Sides remained vertical throughout
Groundwater:	Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP06 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446397E, 294454N	**Scale:** 1:10
			Ground Level:	95.06m OD	
Client:	db Symmetry		**Date(s):**	14/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.10	94.96		Light grey gravelly clayey SAND. Gravel is subangular to subrounded, fine to coarse of limestone, brick and concrete. (MADE GROUND)
							Red angular COBBLES of brick and concrete. (MADE GROUND)
	0.40	ES		0.40	94.66		Firm orange and brownish grey mottled sandy gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of brick, quartz and mudstone. (MADE GROUND)
	0.80	ES		0.80	94.26		Firm grey mottled red slightly gravelly sandy CLAY. Gravel is subangular to subrounded, fine to medium of mudstone and sandstone. (ALLUVIUM)
	1.20	D		1.20	93.86		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP08
Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446373E, 294418N	**Scale:** 1:10
			Ground Level:	95.98m OD	
Client:	db Symmetry		**Date(s):**	14/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.30	ES		0.40	95.58		Brown and grey sandy gravely CLAY. Gravel is subangular to subrounded, fine to coarse of brick, quartz, bituminous bound materials and concrete. (MADE GROUND)
	0.50	ES		0.80	95.18		Brownish grey and yellowish brown sandy gravelly CLAY. Gravel is angular to subangular, fine to coarse of brick, clinker and quartz. (MADE GROUND)
	1.00	ES		1.10	94.88		Firm grey mottled red sandy gravelly CLAY with medium cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick and concrete. Cobbles are subangular of concrete. (MADE GROUND)
							End of Trial Pit at 1.10m

1.0

2.0

Remarks:	Pit terminated at 1.1m bgl due to concrete slab obstruction. Backfilled with arisings.
Stability:	Sides remained vertical throughout
Groundwater:	Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP09 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446393E, 294401N	**Scale:** 1:10
			Ground Level:	95.51m OD	
Client:	db Symmetry		**Date(s):**	14/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.30	95.21		Brown sandy gravelly CLAY. Gravel is angular to subrounded, fine to coarse of brick and concrete. (MADE GROUND)
	0.30	ES					
				0.40	95.11		Red angular COBBLES of brick. (MADE GROUND)
	0.50	ES					Firm grey mottled red slightly gravelly sandy CLAY. Gravel is subangular to subrounded, fine to medium of mudstone and sandstone. (THRUSSINGTON MEMBER)
	1.00	D		1.00	94.51		Grey clayey SAND. (THRUSSINGTON MEMBER)
				1.10	94.41		End of Trial Pit at 1.10m

1.0

2.0

Remarks: Pit terminated at 1.1m bgl due to possible concrete slab obstruction. Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP10
Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446434E, 294126N	**Scale:** 1:10
			Ground Level:	101.19m OD	
Client:	db Symmetry		**Date(s):**	14/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20	ES					Brown gravelly sandy CLAY with frequent rootlets. Gravel is angular to subangular, fine to coarse of brick, quartz and concrete. (MADE GROUND)
				0.40	100.79		
	0.50	ES					Firm grey mottled red CLAY with frequent sand pockets (1mm - 4mm). Sand fine to medium. (THRUSSINGTON MEMBER)
	1.00	D					
				1.20	99.99		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP11 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:** 446410E, 294131N **Ground Level:** 101.00m OD		**Scale:** 1:10
Client:	db Symmetry		**Date(s):**	14/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.10	100.90		Brown sandy CLAY with frequent rootlets. (TOPSOIL)
	0.30	ES					Firm grey and yellowish brown mottled slightly gravelly CLAY with occasional sand pockets (1mm - 3mm) and occasional rootlets. (ALLUVIUM)
	0.50	ES		0.50	100.50		Firm grey mottled red CLAY with occasional rootlets. (THRUSSINGTON MEMBER)
				1.00	100.00		Firm to stiff grey mottled red CLAY with occasional sand pockets. (THRUSSINGTON MEMBER)
	1.20	D		1.20	99.80		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP13 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:** 446424E, 294087N **Ground Level:** 103.08m OD		**Scale:** 1:10
Client:	db Symmetry		**Date(s):**	13/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.15	102.93		Firm red and black gravelly sandy CLAY. Gravel is angular to subangular, fine to coarse of brick. (MADE GROUND)	
	0.30	ES					Firm bluish grey slightly gravelly CLAY with occasional sand pockets. (THRUSSINGTON MEMBER)	
	0.50	ES						
				0.60	102.48		Firm red and bluish grey mottled slightly gravelly CLAY with occasional sand pockets (2mm - 3mm). (THRUSSINGTON MEMBER)	1.0
	1.00	D						
				1.20	101.88		End of Trial Pit at 1.20m	
								2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP14 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446396E, 294074N	**Scale:** 1:10
			Ground Level:	103.58m OD	
Client:	db Symmetry		**Date(s):**	13/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.20	103.38		Dark grey sandy CLAY with frequent rootlets. (MADE GROUND)
	0.30	ES					Grey and brown gravelly CLAY with medium cobble content. Gravel is angular to subangular, fine to coarse of brick and concrete. Cobbles of brick and concrete. (MADE GROUND)
				0.40	103.18		
	0.50	ES					Soft grey mottled red slightly gravelly sandy CLAY. Gravel is subangular, fine to medium of sandstone and mudstone. (THRUSSINGTON MEMBER)
	1.20	D		1.20	102.38		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP15 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446409E, 294060N	**Scale:** 1:10
			Ground Level:	104.23m OD	
Client:	db Symmetry		**Date(s):**	13/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.30	ES					Brown gravelly clayey SAND with medium cobbles content. Gravel is angular to subangular, fine to coarse of concrete and red brick. Cobbles of brick and concrete. (MADE GROUND)
	0.50	ES					
				0.60	103.63		Soft to firm bluish grey slightly sandy gravelly CLAY. Gravel is angular to subangular, fine to coarse of brick and concrete. (MADE GROUND)
	1.00	ES					*Below 1.0m: One angular granite boulder (200m x 215mm).*
				1.10	103.13		End of Trial Pit at 1.10m

1.0

2.0

Remarks: Pit terminated at 1.1m bgl due to boulder obstruction. Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Hand Dug Pit

Trial Pit No: HP16 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.40m x 0.30m	**Hole Type:** HP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446395E, 294034N	**Scale:** 1:10
			Ground Level:	105.99m OD	
Client:	db Symmetry		**Date(s):**	13/08/18	**Plant Used:** Hand Tools

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.30	ES					Reddish brown sandy slightly gravelly CLAY with occasional rootlets. Gravel is subangular to subrounded, fine to coarse of quartz and sandstone. (TOPSOIL)
				0.40	105.59		
	0.50	ES					Firm grey mottled red slightly gravelly CLAY with frequent sand pockets (1mm - 3mm). (THRUSSINGTON MEMBER)
	1.00	D		1.00	104.99		Soft grey mottled red slightly sandy CLAY. Fine to medium sand. (THRUSSINGTON MEMBER)
				1.20	104.79		End of Trial Pit at 1.20m

1.0

2.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: TB **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP01 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446777E, 295571N	**Scale:** 1:25
			Ground Level:	84.78m OD	
Client:	db Symmetry		**Date(s):**	23/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.05	ES					Stiff brown sandy gravelly CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse quartz. (TOPSOIL)
	0.15	ES					
	0.20	ES					
	0.23	ES					
	0.25	ES		0.35	84.43		
	0.30	ES					Stiff light brown sandy gravelly CLAY. Gravel is subrounded fine to coarse of quartz. (BOSWORTH CLAY MEMBER)
	0.50 - 0.80	B		0.50	84.28		
	0.75	ES					Very stiff reddish brown mottled grey slightly gravelly sandy CLAY. Gravel is angular fine to coarse of mudstone. (BOSWORTH CLAY MEMBER)
				0.80	83.98		
	1.00	D					Very stiff brown mottled grey CLAY. (BOSWORTH CLAY MEMBER)
							0.80m: Land drain.
				1.80	82.98		Very stiff reddish brown mottled grey silty CLAY. (BOSWORTH CLAY MEMBER)
	2.50	D					
				2.60	82.18		End of Trial Pit at 2.60m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP02
Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446634E, 295401N	**Scale:** 1:25
			Ground Level:	88.72m OD	
Client:	db Symmetry		**Date(s):**	21/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.40	88.32		Firm brown sandy gravelly CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse quartz. (TOPSOIL)
	1.50 1.50	B HSV	99				Stiff reddish brown sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse quartz and mudstone. With occasional cobbles of mudstone. (BOSWORTH CLAY MEMBER) *Below 1.00m: Becomes mottled blueish grey.*
	2.80	HSV	107	2.80	85.92		End of Trial Pit at 2.80m

1.0
2.0
3.0
4.0
5.0

Remarks: Backfilled with arisings.

Stability: Side remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP03

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446455E, 295588N	**Scale:** 1:25
			Ground Level:	87.52m OD	
Client:	db Symmetry		**Date(s):**	21/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.50	87.02		Firm brown sandy gravelly CLAY with frequent roots and rootlets. Gravel is angular to subrounded fine to coarse quartz. (TOPSOIL)
	0.70	HSV	80				Stiff reddish brown mottled grey gravelly very sandy CLAY. Gravel is subrounded fine to coarse of quartz and mudstone. (BOSWORTH CLAY MEMBER)
	0.80	ES					
	1.00	HSV	100				
	1.20 - 1.50	B					
				1.80	85.72		Very stiff blueish grey mottled brown CLAY. (BOSWORTH CLAY MEMBER)
	2.30	D					
	2.30	HSV	89				
				2.50	85.02		End of Trial Pit at 2.50m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Side remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP04 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446216E, 295493N	**Scale:** 1:25
			Ground Level:	91.61m OD	
Client:	db Symmetry		**Date(s):**	23/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.01	ES					Firm brown sandy gravelly CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse of quartz. (TOPSOIL)
	0.08	ES					
	0.10	ES					
	0.25	ES					
	0.30	ES		0.35	91.26		
							Stiff brown mottled grey slightly sandy CLAY. (BOSWORTH CLAY MEMBER)
	0.75	ES		0.80	90.81		
							Stiff light reddish brown mottled light blueish grey slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse of mudstone and sandstone. (BOSWORTH CLAY MEMBER)
	1.50	HSV	115				
	1.80 - 2.00	B					
	2.50	HSV	140				
				2.60	89.01		End of Trial Pit at 2.60m

1.0
2.0
3.0
4.0
5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP05

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446456E, 295217N	**Scale:** 1:25
			Ground Level:	93.64m OD	
Client:	db Symmetry		**Date(s):**	21/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.40	93.24		Firm brown sandy gravelly CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse of quartz. (TOPSOIL)
	1.00 - 1.20 1.00 - 1.20	B B					Very stiff reddish brown mottled grey sandy gravelly CLAY with medium cobble content. Gravel is angular fine to coarse quartz and mudstone. Cobble composed of sandstone. (BOSWORTH CLAY MEMBER)
							Below 1.20m: Becomes sandy.
	2.00 - 2.20	B					*Below 2.00m: Relic root traces.*
				2.70	90.94		End of Trial Pit at 2.70m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Side remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP07

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445926E, 295323N	**Scale:** 1:25
			Ground Level:	90.65m OD	
Client:	db Symmetry		**Date(s):**	23/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.25	90.40		Stiff dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse of quartz. (TOPSOIL)
							Below 0.0 - 0.25m: Slight humic odour.
							Stiff brown CLAY. (BOSWORTH CLAY MEMBER)
							Below 0.65m: Becoming reddish brown slightly sandy slightly gravelly. Gravel is angular to rounded, fine to coarse of mudstone.
	0.90	D					
	1.40	HSV	128				*Below 1.4m: Becoming reddish brown mottled with blueish grey and gravelly. Gravel is angular to rounded, fine to coarse of mudstone.*
	2.00	B					
	3.00	D					
				3.50	87.15		Reddish brown sandy clayey angular fine to coarse GRAVEL of mudstone. (MERCIA MUDSTONE)
	3.60	D					
	3.80 - 4.00	B					
				4.00	86.65		End of Trial Pit at 4.00m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Water ingress at 4.0m. Damp Base.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP08 Sheet 1 of 1

Project Name: SRFI Hinckley		**Dimensions:** 0.60m x 2.50m	**Hole Type:** TP
Location: Hinckley	**Project No:** C-07700-C	**Co-ords:** 445596E, 295022N **Ground Level:** 97.51m OD	**Scale:** 1:25
Client: db Symmetry		**Date(s):** 23/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.05	D					Dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is angular, fine to medium of mudstone and sandstone. (TOPSOIL)
	0.15	ES					
	0.22	ES					
	0.23	ES		0.30	97.21		
	0.30	ES					Stiff reddish brown sandy gravelly CLAY. Gravel is rounded, fine to coarse of quartz. (BOSWORTH CLAY MEMBER)
	0.40	HSV	140				
				0.80	96.71		
	1.00	D					Stiff reddish brown lightly sandy slightly gravelly CLAY. Gravel is angular to rounded, fine to coarse of mudstone sandstone and quartz. (BOSWORTH CLAY MEMBER)
	1.00	HSV	87				
				1.80	95.71		
	2.00	B					Very stiff reddish brown mottled blueish grey slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded medium to coarse Gravel is quartz. (BOSWORTH CLAY MEMBER)
	2.20	HSV	127				
	3.00	D					
				3.70	93.81		Orange brown fine to medium SAND. (BOSWORTH CLAY MEMBER)
	4.00	B					
				4.10	93.41		End of Trial Pit at 4.10m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP09 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445795E, 294878N	**Scale:** 1:25
			Ground Level:	97.28m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.35	96.93		Dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is angular, fine to medium of mudstone and sandstone. (TOPSOIL)
	0.80	HSV	140				Stiff brown CLAY. (BOSWORTH CLAY MEMBER)
	1.00	HSV	140	0.90	96.38		Very stiff reddish brown CLAY. (BOSWORTH CLAY MEMBER)
	1.60	HSV	140				*Below 1.5m: Becoming slightly sandy slightly gravelly. Gravel is mudstone and sandstone.*
	2.00 - 2.20	B		1.80	95.48		Very stiff dark brownish mottled bluish grey slightly gravelly CLAY. Gravel is angular, fine to medium of mudstone and sandstone. (BOSWORTH CLAY MEMBER)
	2.00 - 2.20	B					
	2.00	HSV	140				
	3.20	HSV	100				
	3.80 - 4.00	B					
	3.80 - 4.00	B		4.00	93.28		End of Trial Pit at 4.00m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP10 Sheet 1 of 1

Project Name: SRFI Hinckley		**Dimensions:** 0.60m x 2.50m	**Hole Type:** TP
Location: Hinckley	**Project No:** C-07700-C	**Co-ords:** 445643E, 294736N **Ground Level:** 99.60m OD	**Scale:** 1:25
Client: db Symmetry		**Date(s):** 20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.10	D					Dark Brown sandy silty CLAY with frequent roots and rootlets. (TOPSOIL)
				0.30	99.30		Light brown very sandy slightly gravelly CLAY. (THRUSSINGTON MEMBER)
				0.60	99.00		Stiff reddish brown mottled green CLAY. With rare Gravel is subrounded to rounded, fine to medium of quartz and mudstone. (THRUSSINGTON MEMBER)
	0.80	HSV	103				
				1.40	98.20		Stiff dark reddish brown slightly sandy slightly gravelly CLAY with lithorelics of mudstone. Gravel is angular fine to medium of mudstone and sandstone. (THRUSSINGTON MEMBER) *Below 1.8m: Cobble of sandstone.*
	2.00 - 2.20	B					
	2.00 - 2.20	B					
				2.20	97.40		End of Trial Pit at 2.20m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP11

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445294E, 294885N	**Scale:** 1:25
			Ground Level:	97.77m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.50	97.27		Stiff dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is rounded, fine to medium quartz and sandstone. (TOPSOIL)
	1.00	D					Stiff reddish brown slightly gravelly CLAY. Gravel is angular to rounded, medium to coarse of sandstone and mudstone. (THRUSSINGTON MEMBER)
							Below 1.0m: Cobble of sandstone.
	1.50	HSV	133				
	2.00	B					
				2.20	95.57		End of Trial Pit at 2.20m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP12

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445113E, 294594N	**Scale:** 1:25
			Ground Level:	93.47m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.10	ES					Stiff dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is rounded, fine to medium of quartz, and sandstone. (TOPSOIL)
	0.20	ES					
	0.30	ES					
	0.40	ES					
	0.45	ES		0.50	92.97		
							Stiff grey mottled orangish brown slightly gravelly CLAY with cobble sized pockets of orangish brown gravelly clay. Gravel is subrounded to rounded, fine to coarse quartz sandstone. (THRUSSINGTON MEMBER)
							Below 1.3m: Gravel stops, becomes firm.
	1.50	B					
	1.50	B					
	1.50	D					
	2.00	HSV	137	2.00	91.47		End of Trial Pit at 2.00m

1.0
2.0
3.0
4.0
5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP13 Sheet 1 of 1

Project Name: SRFI Hinckley		**Dimensions:** 0.60m x 2.50m	**Hole Type:** TP
Location: Hinckley	**Project No:** C-07700-C	**Co-ords:** 445324E, 294476N **Ground Level:** 101.22m OD	**Scale:** 1:25
Client: db Symmetry		**Date(s):** 20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.25	100.97		Stiff slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is rounded, fine to medium of quartz and sandstone. (TOPSOIL)
							Stiff reddish brown slightly sandy CLAY. (THRUSSINGTON MEMBER)
	1.00 1.00	D HSV	140				
				1.30	99.92		Stiff reddish brown mottled greenish grey slightly gravelly slightly sandy CLAY. Gravel is angular to rounded, fine to coarse of mudstone, sandstone and quartz. (THRUSSINGTON MEMBER)
	2.00 2.00	D HSV	122				
							Below 2.2m: Gravel becomes occasional
	2.70	D					
				2.80	98.42		End of Trial Pit at 2.80m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP14 Sheet 1 of 1

Project Name: SRFI Hinckley		**Dimensions:** 0.60m x 2.50m	**Hole Type:** TP
Location: Hinckley	**Project No:** C-07700-C	**Co-ords:** 445647E, 294376N **Ground Level:** 106.16m OD	**Scale:** 1:25
Client: db Symmetry		**Date(s):** 20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.30	105.86		Stiff reddish brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is rounded , fine to medium of quartz and sandstone. (TOPSOIL)
							Stiff reddish brown mottled light grey sandy silty CLAY. (THRUSSINGTON MEMBER)
				1.00	105.16		Very stiff reddish brown mottled greenish grey silty CLAY. (THRUSSINGTON MEMBER)
	1.50	HSV	120				
	1.80 - 2.00	B					
	1.80 - 2.00	B					
				2.00	104.16		End of Trial Pit at 2.00m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP15

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445954E, 294524N	**Scale:** 1:25
			Ground Level:	103.51m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20	D		0.30	103.21		Stiff dark brown slightly gravelly sandy CLAY with frequent roots and rootlets. Gravel is angular to rounded, fine to coarse of mudstone, sandstone and quartz. (TOPSOIL)
				0.60	102.91		Stiff reddish brown mottled dark brown CLAY. (THRUSSINGTON MEMBER)
	1.00	D					Firm to stiff light reddish brown mottled light grey slightly sandy slightly gravelly silty CLAY. Gravel is angular fine of sandstone and mudstone. (THRUSSINGTON MEMBER)
	1.50	HSV	53				
	2.00	D					
	2.90	D		3.00	100.51		End of Trial Pit at 3.00m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP16

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445855E, 294693N	**Scale:** 1:25
			Ground Level:	102.41m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.40	102.01		Stiff dark brown slightly gravelly sandy CLAY with frequent roots and rootlets. Gravel is subrounded to rounded, fine to coarse quartz and sandstone. (TOPSOIL)
	1.00	HSV	57				Stiff light red mottled light grey slightly gravelly sandy silty CLAY. Gravel is angular, fine of sandstone. (THRUSSINGTON MEMBER)
	1.80	B					
	1.80 - 2.00	B					
	2.00 - 2.20	B					
				2.90	99.51		
	3.00 - 3.10	B					Grey very sandy clayey angular fine to coarse sandstone GRAVEL. (MERCIA MUDSTONE)
	3.00 - 3.10	B					
				3.30	99.11		Very stiff reddish brown silty CLAY. (MERCIA MUDSTONE)
	3.60 - 4.00	B					
				4.00	98.41		End of Trial Pit at 4.00m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Water ingress at 2.9m

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP17 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446064E, 294646N	**Scale:** 1:25
			Ground Level:	99.20m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.35	98.85		Stiff dark brown slightly gravelly sandy CLAY with frequent roots and rootlets. Gravel is angular to rounded, fine to coarse of mudstone, sandstone and quartz. (TOPSOIL)
							Stiff reddish brown CLAY. (BOSWORTH CLAY MEMBER)
							Below 1.1m: Becoming Sandy and Firm
				2.00	97.20		Firm reddish brown sandy silty CLAY with frequent cobble sized pockets of soft reddish brown very sandy Silty Clay. (BOSWORTH CLAY MEMBER)
	2.20	HSV	73				
	2.50	D					
	3.00	D		3.00	96.20		End of Trial Pit at 3.00m
	3.00	HSV	100				

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: SP **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP18

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446666E, 295026N	**Scale:** 1:25
			Ground Level:	91.76m OD	
Client:	db Symmetry		**Date(s):**	21/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20	ES		0.20	91.56		Firm brown sandy gravelly CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse quartz. (TOPSOIL)
	0.40	D		0.50	91.26		Firm light brown sandy gravelly CLAY. Gravel is subrounded chalk and quartz. (THRUSSINGTON MEMBER)
	1.00 - 1.20	B					Very stiff reddish brown mottled grey sandy gravelly CLAY. Medium sand, gravel is subrounded fine to coarse quartz. (THRUSSINGTON MEMBER)
	1.80	HSV	116				
	2.00 - 2.10	B					*Below 2.00m: Becomes bluish grey mottled brown.*
				2.80	88.96		End of Trial Pit at 2.80m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Side remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP19

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446941E, 295221N	**Scale:** 1:25
			Ground Level:	88.20m OD	
Client:	db Symmetry		**Date(s):**	21/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20	ES					Firm brown gravelly sandy CLAY with frequent roots and rootlets. Gravel is subrounded fine to coarse quartz. (TOPSOIL)
				0.40	87.80		Stiff red mottled green slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse mudstone. (BOSWORTH CLAY MEMBER)
	1.00 - 1.20	B					*Below 1.0m: Becomes very sandy.*
	2.00 - 2.50	B		2.00	86.20		Red mottled green silty SAND. (MERCIA MUDSTONE)
				2.90	85.30		End of Trial Pit at 2.90m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Side remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP20 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	446980E, 294923N	**Scale:** 1:25
			Ground Level:	87.31m OD	
Client:	db Symmetry		**Date(s):**	21/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.05	D					Stiff dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is angular to rounded, fine to coarse of quartz, sandstone and mudstone. (TOPSOIL)
	0.20	ES					
	0.22	ES		0.30	87.01		
	0.23	ES					
	0.25	ES					
	0.30	ES					
	0.50 - 0.80	B					Firm light greenish brown sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse of quartz. (ALLUVIUM)
	0.75	ES		0.80	86.51		
	1.00 - 1.20	B					Very stiff red mottled grey slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse of quartz (BOSWORTH CLAY MEMBER)
				1.50	85.81		
	1.80	HSV	71				Stiff red mottled grey slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse of quartz. (BOSWORTH CLAY MEMBER)
	2.00 - 2.50	B					
				2.60	84.71		End of Trial Pit at 2.60m

1.0 2.0 3.0 4.0 5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Trial Pit

Trial Pit No: TP21

Sheet 1 of 1

Project Name:	SRFI Hinckley		**Dimensions:**	0.60m x 2.50m	**Hole Type:** TP
Location:	Hinckley	**Project No:** C-07700-C	**Co-ords:**	445468E, 294622N	**Scale:** 1:25
			Ground Level:	103.32m OD	
Client:	db Symmetry		**Date(s):**	20/08/18	**Plant Used:** JCB3CX

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20	ES		0.30	103.02		Stiff dark brown slightly gravelly CLAY. Gravel is subrounded to rounded, fine to coarse of quartz and sandstone. (TOPSOIL)
	1.00	HSV	113				Stiff dark reddish brown mottled light bluish grey slightly gravelly CLAY. Gravel is angular to subrounded, fine to medium of mudstone, sandstone, and quartz. (THRUSSINGTON MEMBER)
	2.00 - 2.30	B					
	2.00 - 2.30	B					
				2.30	101.02		End of Trial Pit at 2.30m

1.0
2.0
3.0
4.0
5.0

Remarks: Backfilled with arisings.

Stability: Sides remained vertical throughout

Groundwater: Groundwater not encountered.

B = Bulk Sample
D = Disturbed Sample
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
CBR = In Situ California Bearing Ratio (%)
HSV = Hand Shear Vane (kPa)
HP = Hand Penetrometer (kPa)
AB = Asbestos Bulk Sample

Logged: CdM **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS01 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Co-ords:**	446811E, 295723N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	83.97m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	12/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
					0.40	83.57		Dark brown CLAY with frequent rootlets. (TOPSOIL)
		1.00 1.00 1.00	D D SPT	N=10 (1,2/2,2,3,3)				Stiff dark grey mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded, fine to coarse chert and quartz. (BOSWORTH CLAY MEMBER) *Below 1.0m: Becoming dark brown mottled dark grey.*
		2.00 2.00 2.00	D D SPT	N=14 (2,3/3,3,4,4)				*Below 1.8m: Relic root traces.*
		2.90 2.90 3.00	D D SPT	N≥50 (7,12/50 for 150mm)	2.40 3.00	81.57 80.97		Firm to stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is angular to rounded, fine to medium of quartz and mudstone. (BOSWORTH CLAY MEMBER) Very stiff reddish brown slightly sandy CLAY. (MERCIA MUDSTONE)
					3.45	80.52		End of Borehole at 3.45m

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 3.45m bgl due to competency of deposits. 2) Combined gas and water monitoring well installed to 3.00m bgl. 3) Response zone between 1.00m and 3.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: SP **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS02 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Co-ords:**	446286E, 295358N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	94.36m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	11/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
		0.08 0.15 0.23 0.30	ES ES ES ES					Brown sandy CLAY with frequent rootlets. (TOPSOIL)
		0.40	ES		0.40	93.96		Stiff grey mottled red slightly sandy CLAY with occasional rootlets and rare roots (2mm - 3mm diameter). (BOSWORTH CLAY MEMBER)
		1.20	SPT	N=14 (3,2/3,4,3,4)	1.20	93.16		Firm red mottled grey slightly sandy slightly gravelly silty friable CLAY. Gravel is angular, coarse grey weathered sandstone. Sand is fine to medium. (BOSWORTH CLAY MEMBER)
		2.00 2.00	D SPT	N=39 (6,8/10,10,9,10)				*Below 2.0m: Becoming stiff.*
		3.00	SPT	N≥50 (8,8/11,13,13,13)	3.00	91.36		End of Borehole at 3.00m

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 3.00m bgl due to competency of deposits. 2) Combined gas and water monitoring well installed to 2.50m bgl. 3) Response zone between 0.50m and 2.50m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: TB **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS03 Sheet 1 of 2

Project Name: SRFI Hinckley		**Co-ords:** 446768E, 295252N	**Hole Type:** WLS
Location: Hinckley	**Project No:** C-07700-C	**Ground Level:** 88.78m OD	**Scale:** 1:25
Client: db Symmetry		**Date(s):** 11/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
					0.10	88.68		Brown Stiff CLAY with occasional rootlets. (TOPSOIL)
								Stiff reddish brown mottled grey silty CLAY with occasional medium to coarse gravel sized pockets of light grey sandstone. (BOSWORTH CLAY MEMBER)
		1.00	D					
		1.00	D					
		1.20	SPT	N=16 (3,3/3,4,4,5)				
		2.00	D					
		2.00	D					
		2.00	SPT	N=17 (2,3/3,4,4,6)				
		3.00	D		3.00	85.78		Firm to stiff reddish brown mottled grey silty CLAY with occasional medium to coarse gravel sized pockets of grey sandstone and reddish brown mudstone. (MERCIA MUDSTONE)
		3.00	D					
		3.00	SPT	N=24 (3,3/4,6,6,8)				
		4.00	D					
		4.00	D					
		4.00	SPT	N=31 (4,4/6,7,8,10)				
		4.80	D		4.50	84.28		Stiff dark reddish brown CLAY. (MERCIA MUDSTONE)
		4.80	D					
		5.00	SPT	N=36 (4,4/8,8,9,11)				

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 5.45m bgl as designed 2) Combined gas and water monitoring well installed to 5.00m bgl. 3) Response zone between 0.50m and 5.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: SP **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS03

Sheet 2 of 2

Project Name:	SRFI Hinckley		**Co-ords:**	446768E, 295252N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	88.78m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	11/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
		Depth (m)	Type	Results				
					5.45	83.33		Stiff dark reddish brown CLAY. (MERCIA MUDSTONE) End of Borehole at 5.45m

6.0
7.0
8.0
9.0
10.0

Remarks: 1) Borehole terminated at 5.45m bgl as designed 2) Combined gas and water monitoring well installed to 5.00m bgl. 3) Response zone between 0.50m and 5.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: SP **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS04 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Co-ords:**	445835E, 295173N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	91.17m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	11/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
					0.20	90.97		(TOPSOIL)
		0.50	ES					Stiff brown mottled slightly gravelly CLAY. Gravel is subrounded fine to coarse of quartz and sandstone. (THRUSSINGTON MEMBER)
					0.70	90.47		
					0.70	90.47		Stiff brown mottled slightly gravelly CLAY. Gravel is subrounded fine to coarse of quartz and sandstone. (BOSWORTH CLAY MEMBER)
		1.20	SPT	N=17 (2,2/3,3,5,6)				Stiff reddish brown mottled grey silty CLAY with occasional medium to coarse gravel sized pockets of light grey sandstone. (BOSWORTH CLAY MEMBER)
		1.30	B					
		1.30	D					
		1.30	D					
					1.80	89.37		Medium dense reddish brown silty SAND (BOSWORTH CLAY MEMBER)
		1.90	D					*Below 2.0m to 2.3m: Becoming clayey.*
		1.90	D					
		2.00	SPT	N=18 (1,2/3,3,6,6)				
					2.30	88.87		Stiff reddish brown sandy silty CLAY with rare coarse gravel of light grey sandstone. (BOSWORTH CLAY MEMBER)
		3.00	SPT	N=24 (3,6/4,4,5,11)	3.00	88.17		Medium dense reddish brown clayey SAND. (BOSWORTH CLAY MEMBER)
					3.30	87.87		Firm reddish brown slightly gravelly sandy silty CLAY with frequent lithorelics of reddish brown mudstone. Gravel is subangular fine of sandstone. (MERCIA MUDSTONE)
		3.60	SPT	N≥50 (8,10/13,14,12,11)	3.60	87.57		End of Borehole at 3.60m

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 3.60m bgl due to competency of deposits. 2) Combined gas and water monitoring well installed to 3.00m bgl. 3) Response zone between 0.50m and 3.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Wet during drilling 2.0-2.3m bgl.

Logged: SP **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS05 Sheet 1 of 2

Project Name:	SRFI Hinckley		**Co-ords:**	446103E, 295110N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	94.66m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	12/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.40	94.26		Firm light brown slightly sandy slightly gravelly CLAY. Gravel is angular to rounded, fine to medium of chert, quartz and brick (MADE GROUND)
		1.20	SPT	N=16 (2,2/3,4,4,5)	1.20	93.46		Firm reddish brown grey mottled CLAY. (BOSWORTH CLAY MEMBER)
		2.00	SPT	N=20 (3,3/5,4,5,6)				Firm dark brown grey mottled CLAY with rare medium to coarse gravel sized pockets of light grey sandstone. (BOSWORTH CLAY MEMBER) *Below 2.0m: Becoming stiff.*
					2.50	92.16		Stiff dark brown grey mottled slightly gravelly CLAY. Gravel is fine to medium of orange mudstone (BOSWORTH CLAY MEMBER)
		3.00	SPT	N=25 (2,4/5,5,7,8)				
		4.00	SPT	N=25 (2,3/5,5,6,9)				*Below 4.0m: Becoming very stiff.* *Below 4.1m: Gravel of orange and black mudstone.* *Below 4.3m: Gravel is angular to rounded fine to medium of sandstone, quartz and mudstone.*
		5.00	SPT	N≥50 (6,10/12,12,14,12)				

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 5.00m bgl as designed 2) Combined gas and water monitoring well installed to 5.00m bgl. 3) Response zone between 1.00m and 5.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: SP **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS05 Sheet 2 of 2

Project Name:	SRFI Hinckley		**Co-ords:**	446103E, 295110N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	94.66m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	12/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
					5.45	89.21		Stiff dark brown grey mottled slightly gravelly CLAY. Gravel is fine to medium of orange mudstone (BOSWORTH CLAY MEMBER) *Below 5.0m: Becoming very stiff.* End of Borehole at 5.45m

6.0
7.0
8.0
9.0
10.0

Remarks: 1) Borehole terminated at 5.00m bgl as designed 2) Combined gas and water monitoring well installed to 5.00m bgl. 3) Response zone between 1.00m and 5.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: SP **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS06 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Co-ords:**	445692E, 295210N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	92.97m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	20/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
		0.20	ES					Firm brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is angular, fine to coarse of chert. (TOPSOIL)
					0.40	92.57		Very stiff brown orange mottled grey slightly sandy slightly gravelly CLAY. Gravel is angular, fine to coarse of chert. (BOSWORTH CLAY MEMBER)
					0.60	92.37		Very stiff brown reddish slightly sandy CLAY. (BOSWORTH CLAY MEMBER)
		1.00 1.00	D SPT	N=18 (2,3/4,4,5,5)				
								Below 1.4m: Relic root traces.
		2.00 2.00	D SPT	N=25 (3,4/5,6,6,8)				
								Below 2.6m: occasional gravel of greyish blue mudstone.
		3.00 3.00	D SPT	N≥50 (14,11/50 for 150mm)	3.00	89.97		End of Borehole at 3.00m

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 3.00m bgl due to competency of deposits. 2) Backfilled with arisings.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: CdM **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS07 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Co-ords:**	446044E, 295082N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	94.02m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	10/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
		0.30	ES		0.40	93.62		Stiff dark brown and grey mottled sandy CLAY with frequent rootlets (TOPSOIL)
		1.20	SPT	N=18 (2,4/4,4,5,5)	1.00	93.02		Stiff grey mottled dark red CLAY with occasional rootlets. (BOSWORTH CLAY MEMBER)
		1.90 1.90 2.00	D D SPT	N=28 (2,4/6,6,7,9)	1.90	92.12		Stiff grey mottled red gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of mudstone and sandstone. (BOSWORTH CLAY MEMBER)
		2.70 2.70 2.70	B D D		2.30 2.40 2.80	91.72 91.62 91.22		Dense red fine to medium SAND. (BOSWORTH CLAY MEMBER) Dense red fine to medium SAND with rare fine sandstone. (BOSWORTH CLAY MEMBER) Dense red slightly clayey slightly gravelly SAND. Gravel is subangular, fine of sandstone. (BOSWORTH CLAY MEMBER)
		3.00	SPT	N=26 (4,4/6,6,6,8)				Dense red fine to medium SAND. (BOSWORTH CLAY MEMBER)
		4.00 4.00 4.00	D D SPT	N≥50 (6,8/50 for 225mm)	4.00	90.02		End of Borehole at 4.00m

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 4.00m bgl due to competency of deposits. 2) Backfilled with arisings.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: TB **Checked:**

Hydrock [REDACTED]

Windowless Sampler

Borehole No. WS08 Sheet 1 of 1

Project Name:	SRFI Hinckley		**Co-ords:**	446531E, 295120N	**Hole Type:** WLS
Location:	Hinckley	**Project No:** C-07700-C	**Ground Level:**	93.93m OD	**Scale:** 1:25
Client:	db Symmetry		**Date(s):**	10/08/18	**Hole Diameter:**

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m OD)	Legend	Stratum Description
		0.40	ES		0.50	93.43		Stiff light grey dark brown mottled slightly sandy slightly gravelly CLAY with frequent roots and rootlets. Gravel is angular to rounded fine to medium of chert, quartz and brick. (TOPSOIL)
		1.00 1.00 1.20	D D SPT	N=14 (2,2/3,3,4,4)				Firm to stiff light grey dark brown mottled grey slightly gravelly CLAY. Gravel is angular, medium to coarse of light grey sandstone, mudstone. (BOSWORTH CLAY MEMBER)
								Below 1.5m: Becoming slightly gravelly. Gravel is angular to subangular fine to medium mudstone and sandstone.
		2.00 2.20 2.20	SPT D D	N=26 (3,4/6,6,7,7)	2.05	91.88		Firm dark brown mottled blue grey CLAY. (BOSWORTH CLAY MEMBER)
					2.40	91.53		Stiff reddish brown slightly sandy slightly gravelly CLAY, Gravel is angular to rounded fine to medium of chert, sandstone and mudstone. (BOSWORTH CLAY MEMBER)
		3.00 3.00 3.00	D D SPT	N=28 (6,6/5,7,7,9)				
					3.75	90.18		Stiff dark brown slightly gravelly CLAY. Gravel is angular fine to medium of Mudstone. (BOSWORTH CLAY MEMBER)
		3.90 3.90 4.00	D D SPT	N≥50 (5,6/10,13,14,13)	4.00	89.93		End of Borehole at 4.00m

1.0 2.0 3.0 4.0 5.0

Remarks: 1) Borehole terminated at 4.00m bgl due to competency of deposits. 2) Combined gas and water monitoring well installed to 4.00m bgl. 3) Response zone between 0.50m and 4.00m bgl.

B = Bulk Sample
D = Disturbed Sample
U = Undisturbed Sample
UT = Undisturbed Sample (Thin Wall)
ES = Environmental Sample
W = Water Sample
PID = Photoionization Detector (ppm)
SPT = Standard Penetration Test
AB = Asbestos Bulk Sample

Groundwater: Groundwater not encountered.

Logged: SP **Checked:**

Appendix F

Geotechnical Test Results and Geotechnical Plots

Geotechnical Laboratory Test Results

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

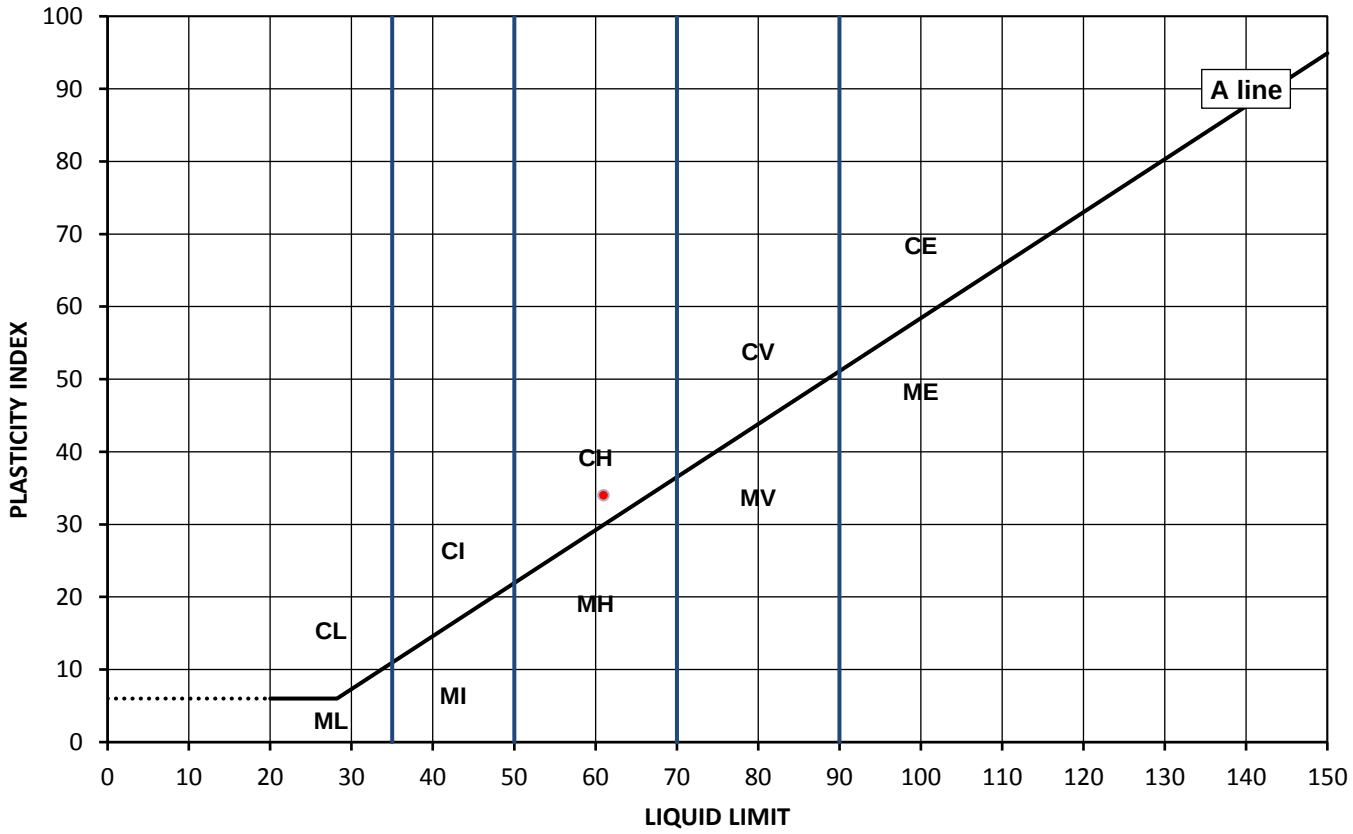
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059079	Depth Top [m]:	2.00
Hole No.:	TP09	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Grey mottled brown slightly sandy silty CLAY		
Sample Preparation:	Tested in natural condition		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
17	61	27	34	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

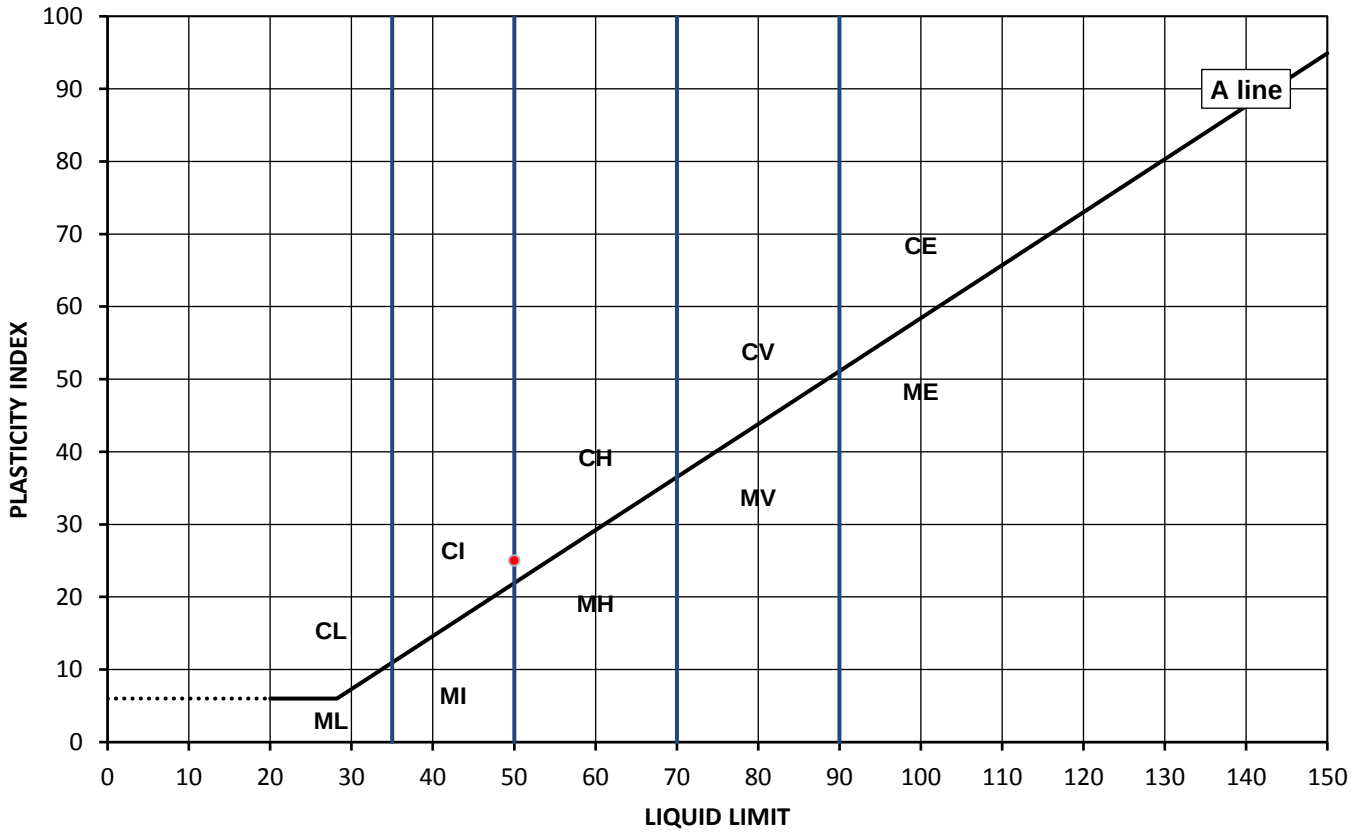
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059080	Depth Top [m]:	1.80
Hole No.:	TP14	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Brown silty slightly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	50	25	25	96



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

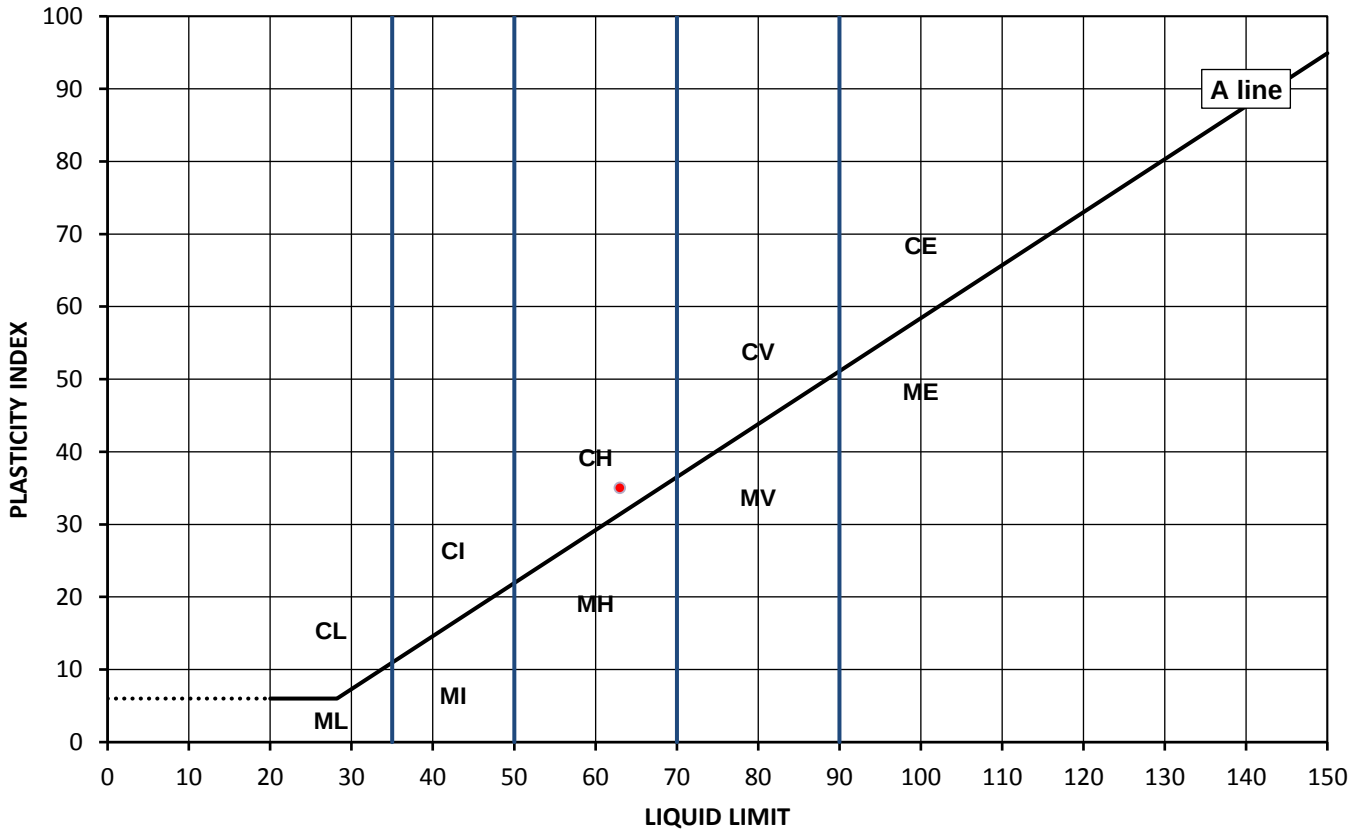
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059081	Depth Top [m]:	3.80
Hole No.:	TP09	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Brown silty slightly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	63	28	35	99



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

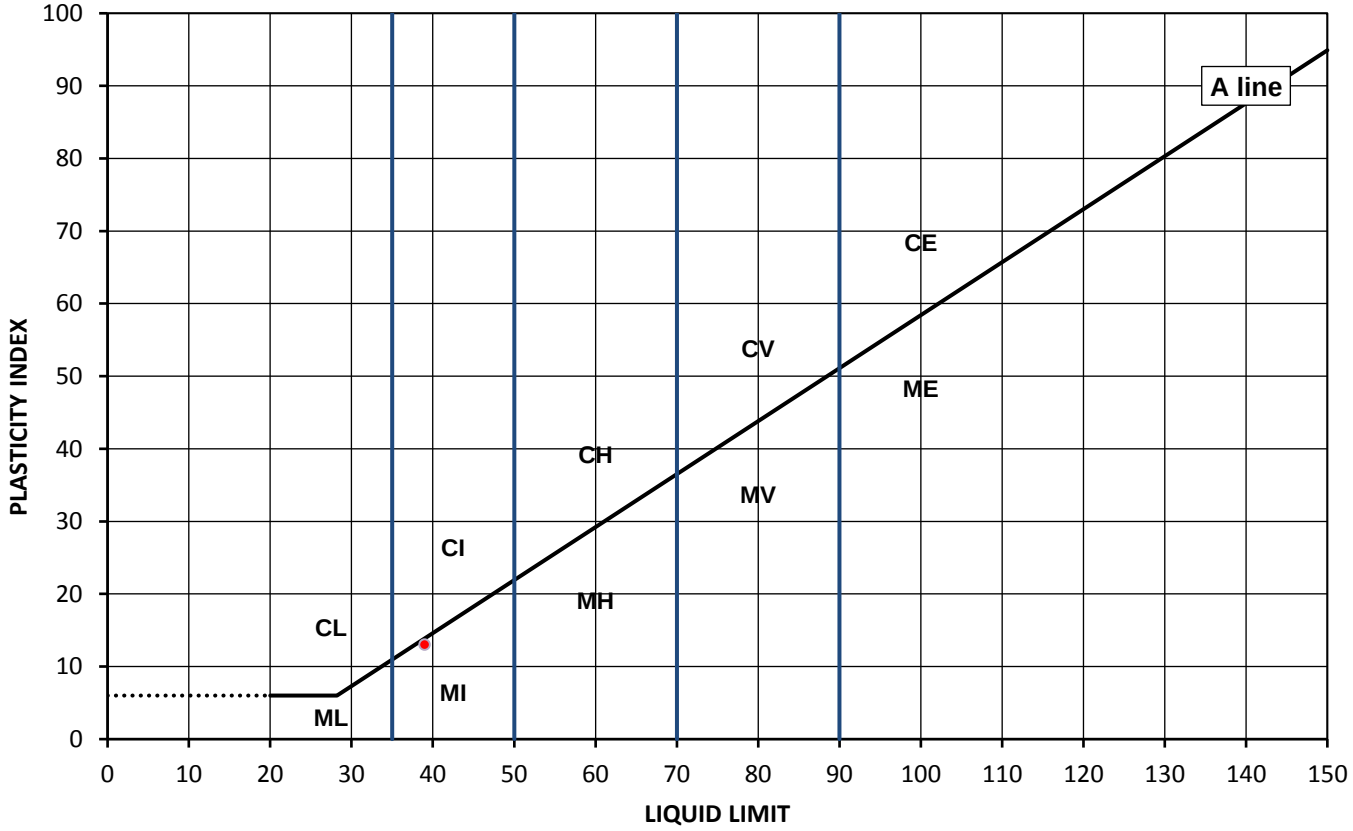
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059082	Depth Top [m]:	1.80
Hole No.:	TP16	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Red silty clayey SAND		

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	39	26	13	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

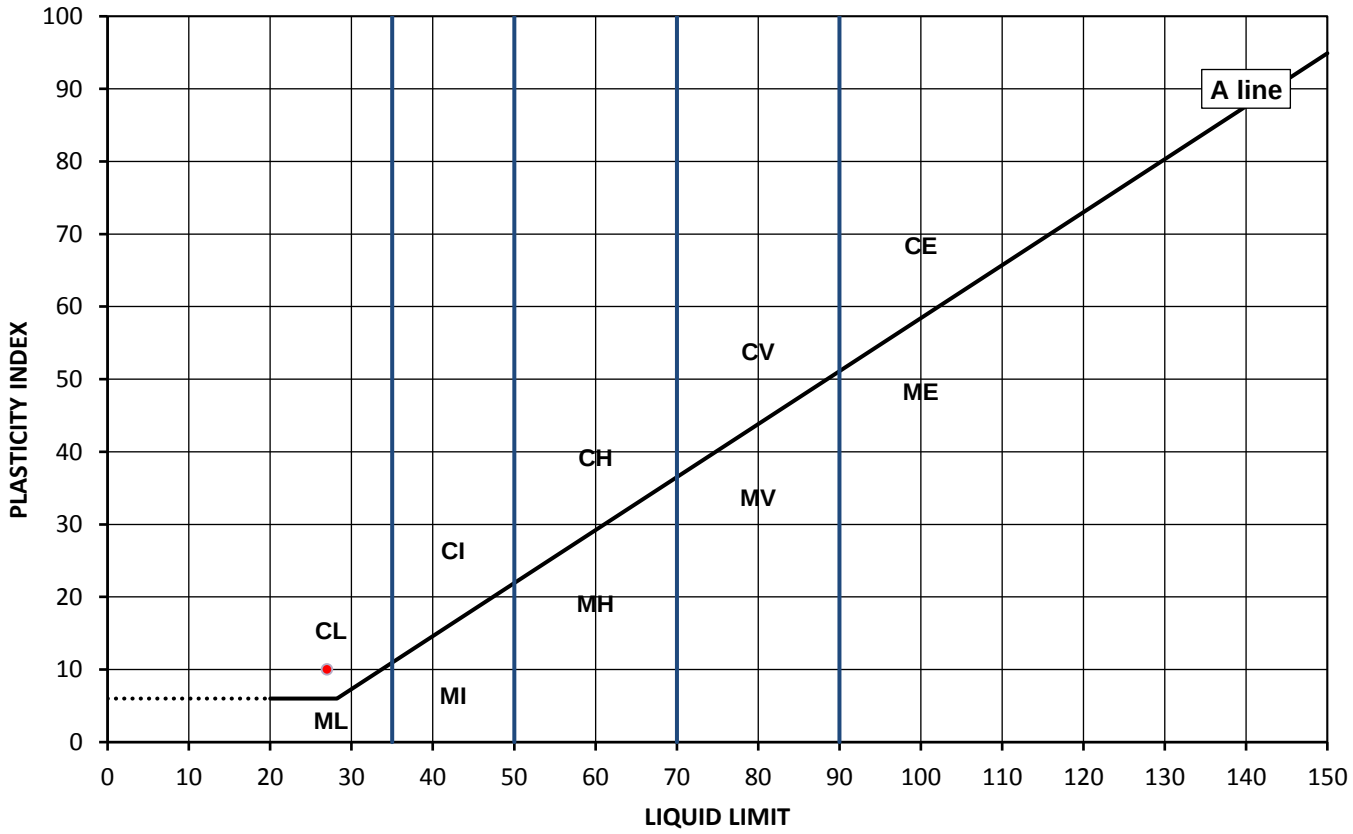
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059083	Depth Top [m]:	3.60
Hole No.:	TP161	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Reddish brown silty clayey SAND		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	27	17	10	93



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

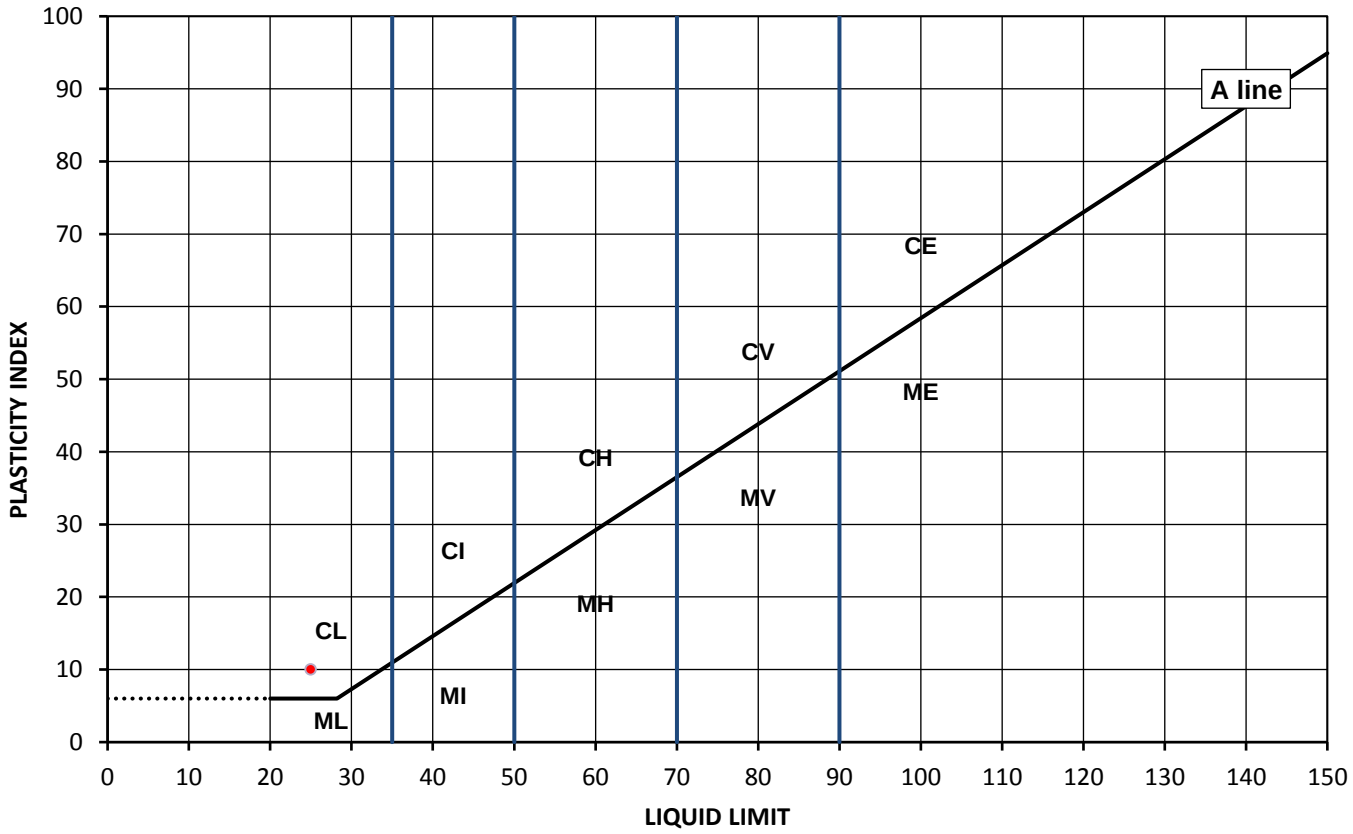
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059084	Depth Top [m]:	3.00
Hole No.:	TP16	Depth Base [m]:	3.10
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Cream color slightly gravelly clayey SAND		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	25	15	10	73



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

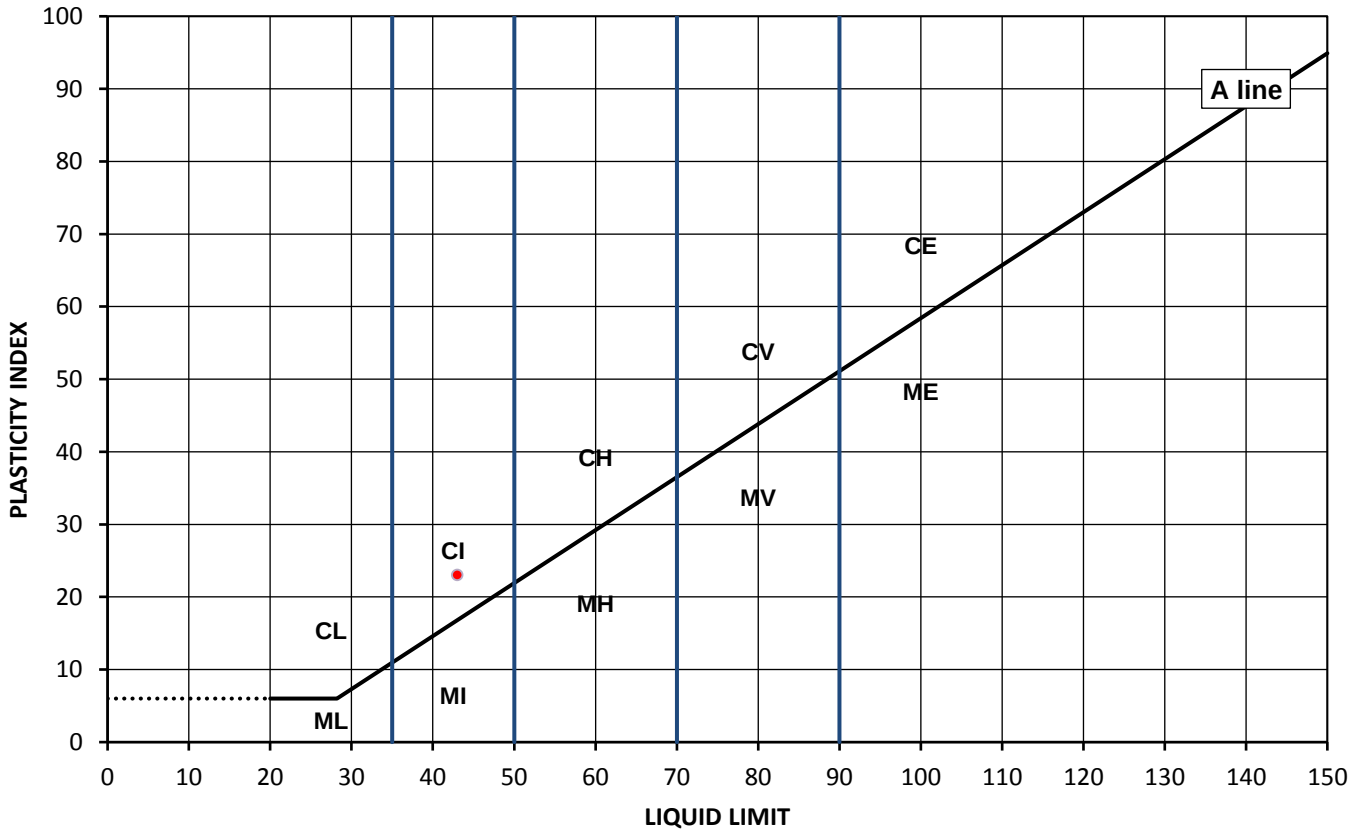
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	21/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059085	Depth Top [m]:	1.00
Hole No.:	TP05	Depth Base [m]:	1.20
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Greyish brown slightly gravelly sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
13	43	20	23	91



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

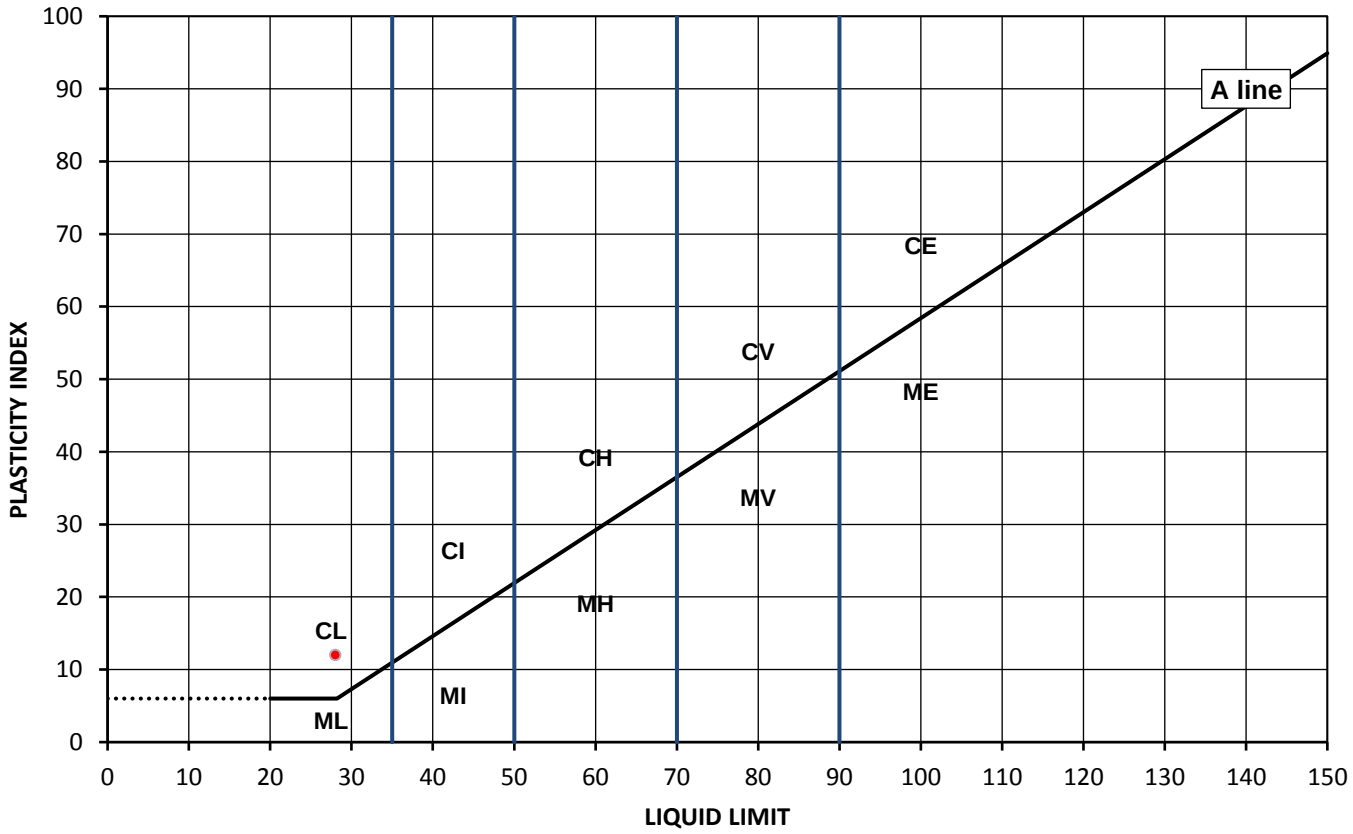
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059086	Depth Top [m]:	2.00
Hole No.:	TP10	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Brown mottled grey slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
12	28	16	12	91



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

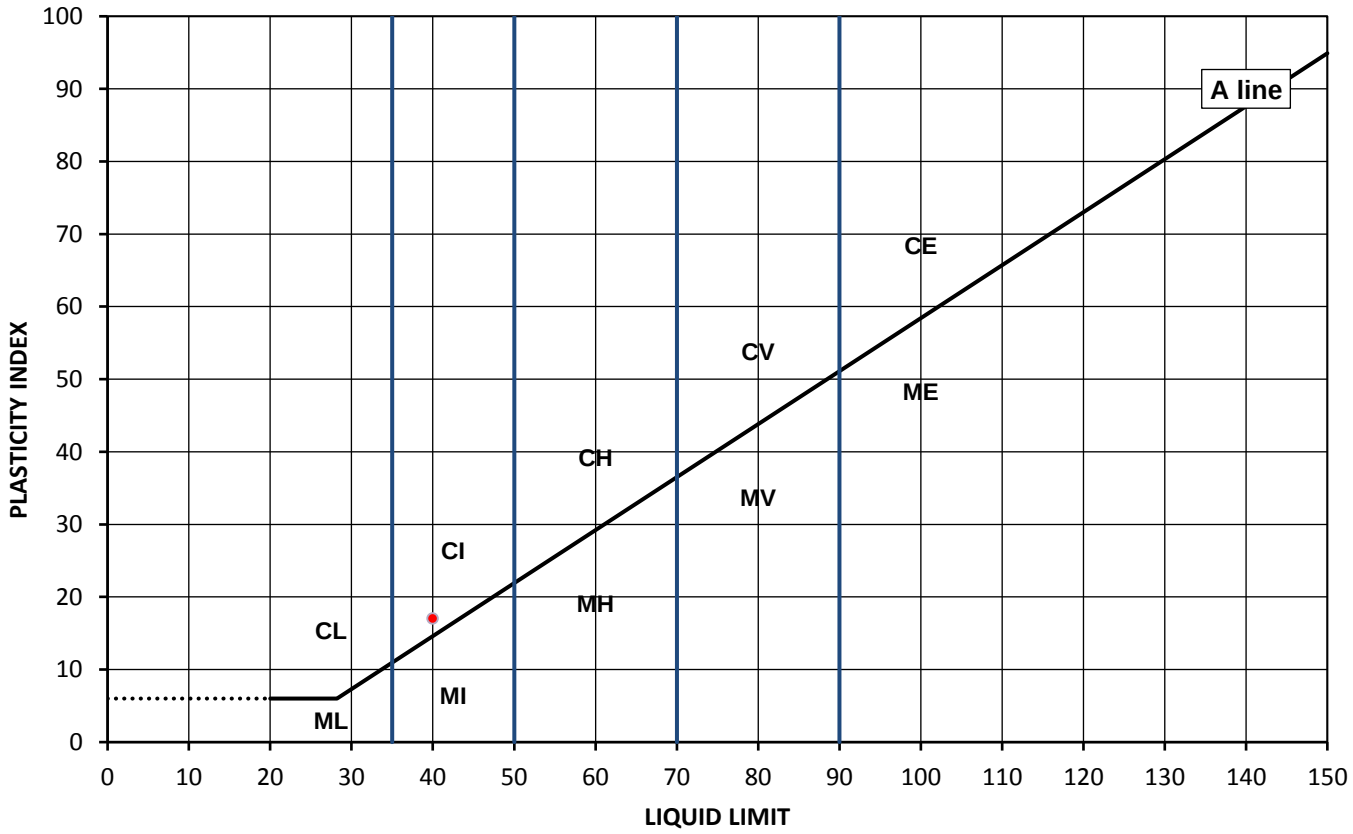
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059087	Depth Top [m]:	2.00
Hole No.:	TP21	Depth Base [m]:	2.30
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Brown mottled grey slightly gravelly sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	40	23	17	97



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

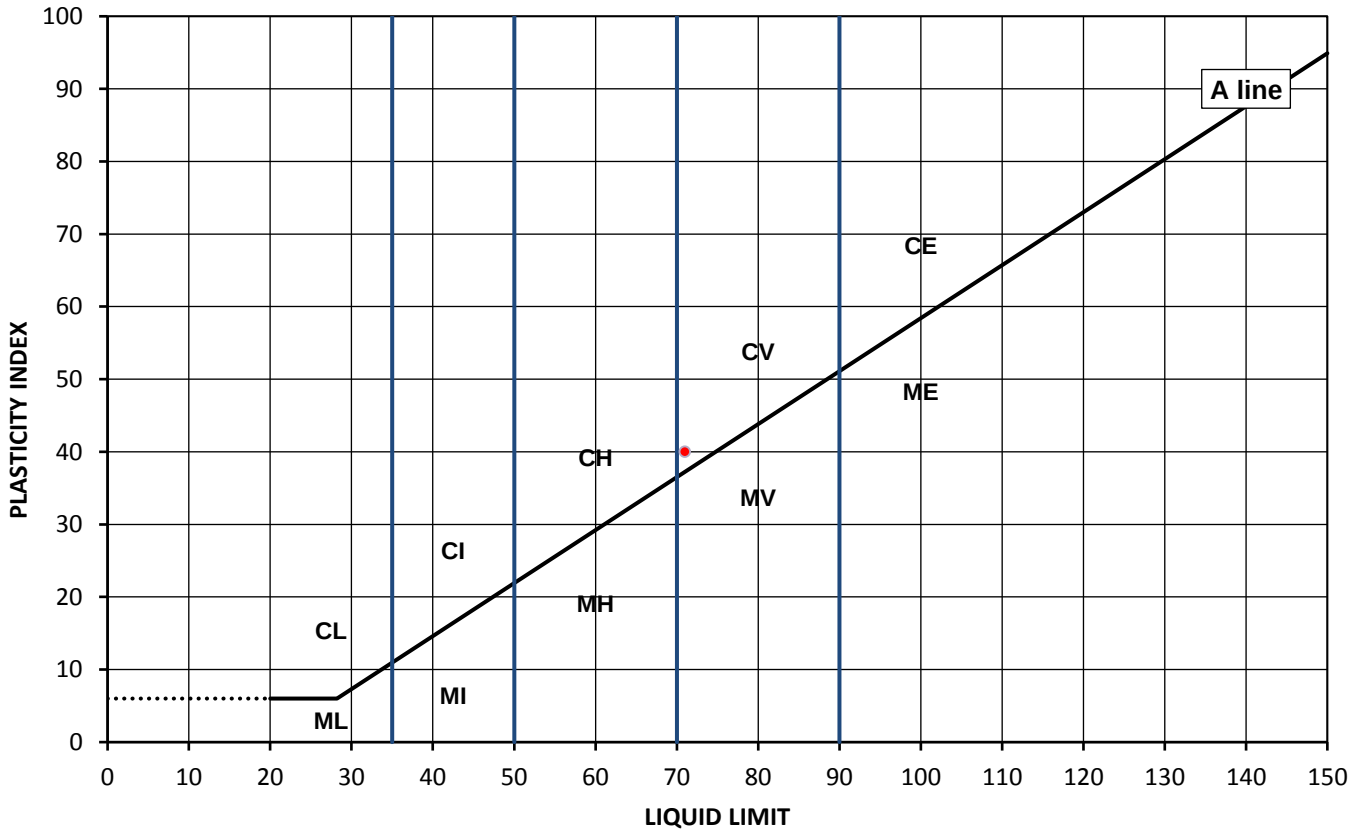
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059088	Depth Top [m]:	1.50
Hole No.:	TP12	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Soil Description:	Brownish grey slightly gravelly CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
18	71	31	40	88



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

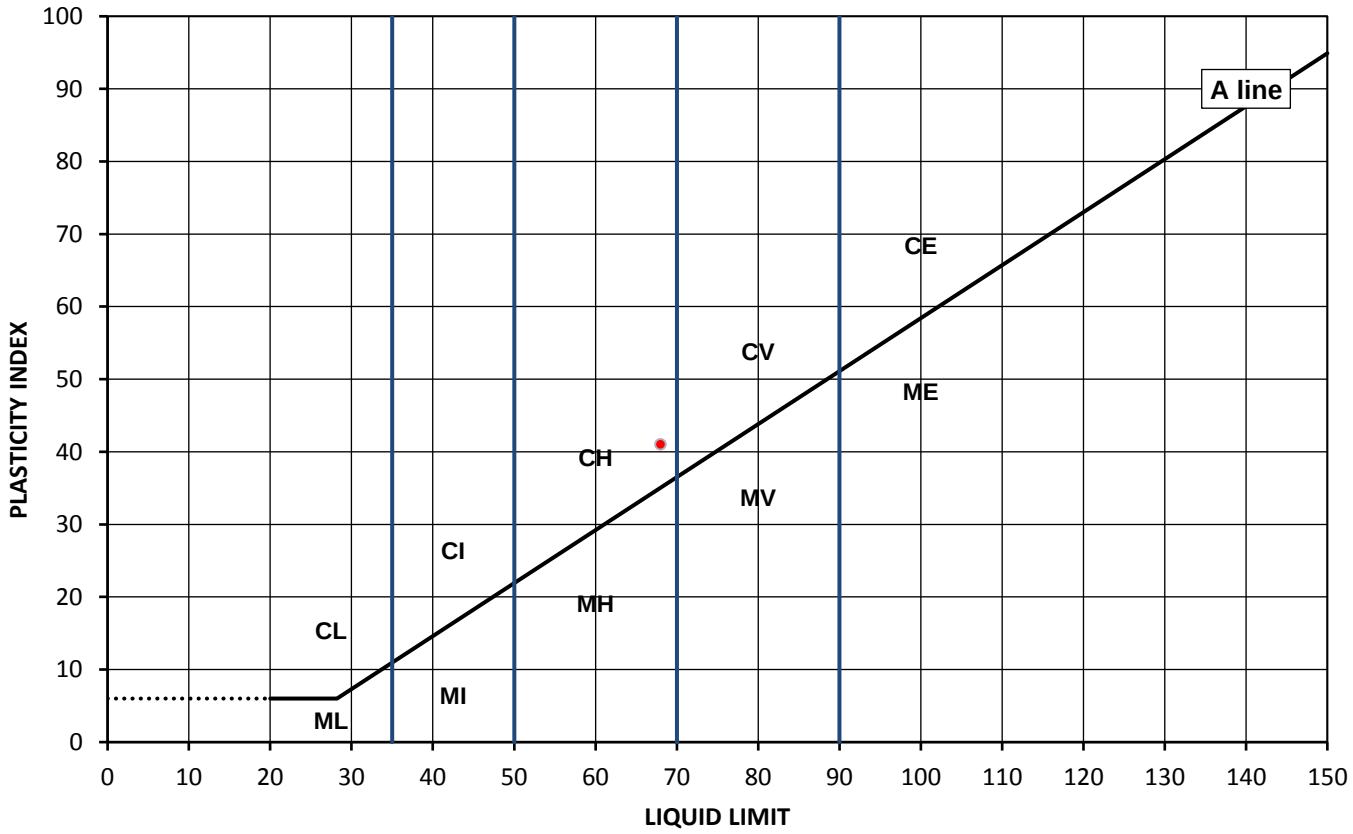
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	12/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059089	Depth Top [m]:	1.00
Hole No.:	WS01	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown CLAY		

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
28	68	27	41	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

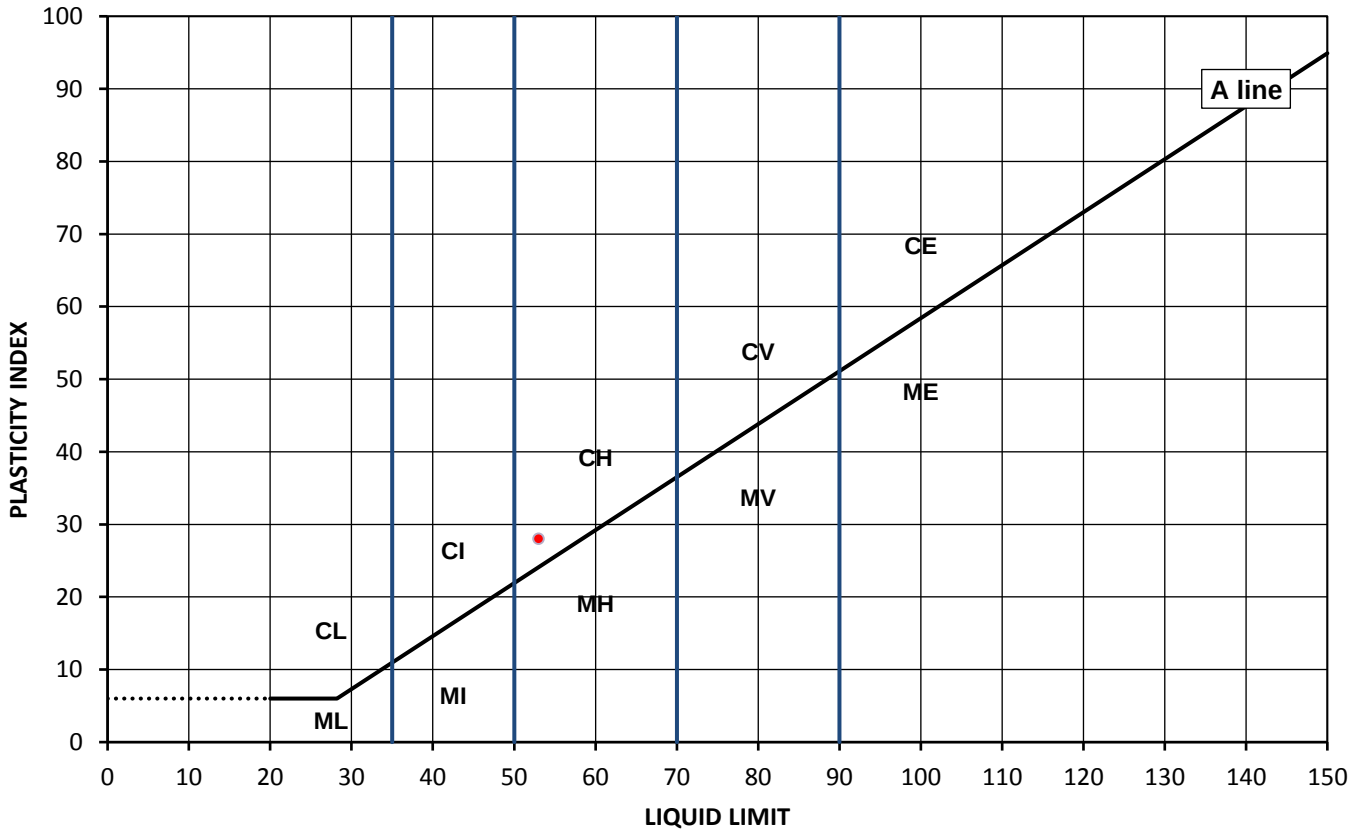
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	12/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059090	Depth Top [m]:	2.00
Hole No.:	WS01	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
20	53	25	28	97



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

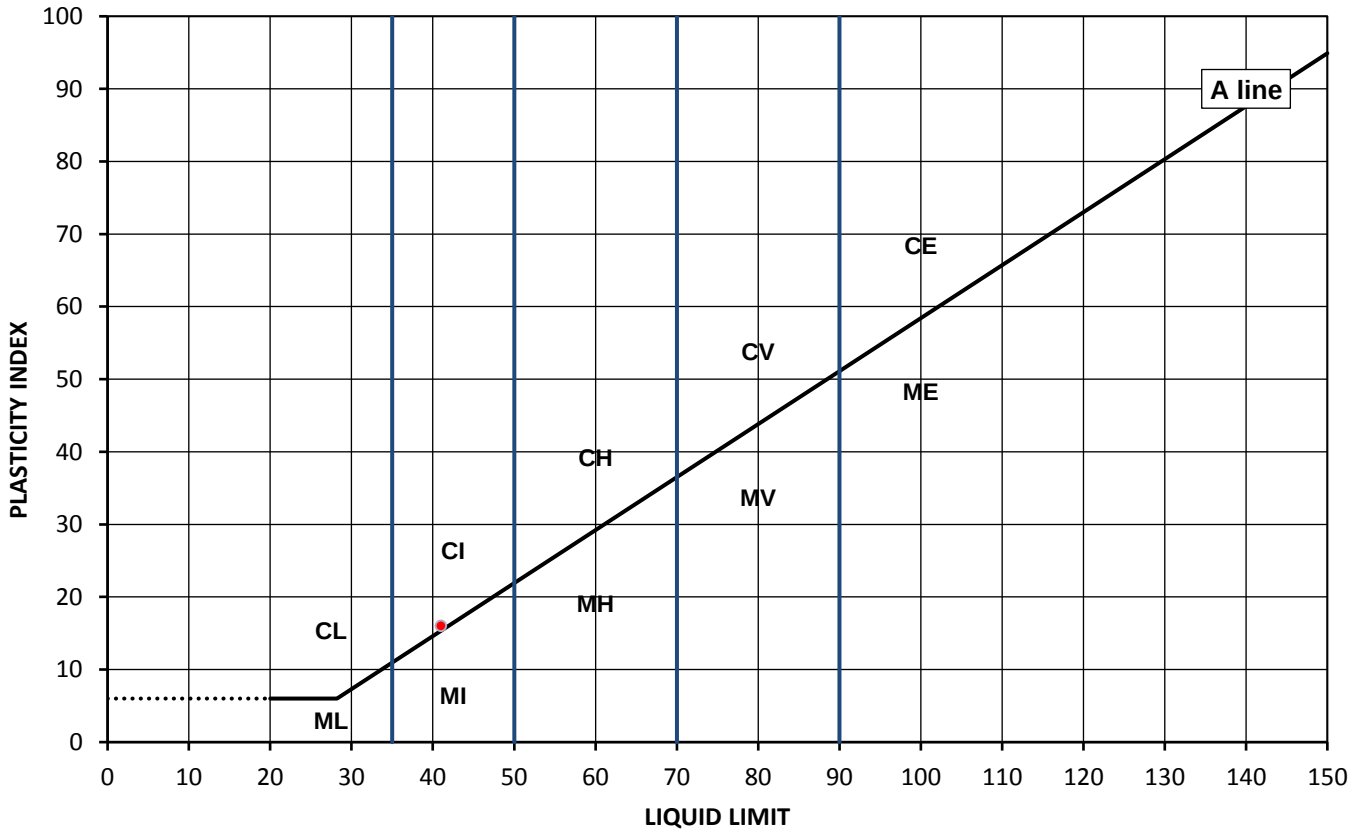
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	12/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059091	Depth Top [m]:	2.90
Hole No.:	WS01	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
19	41	25	16	71



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

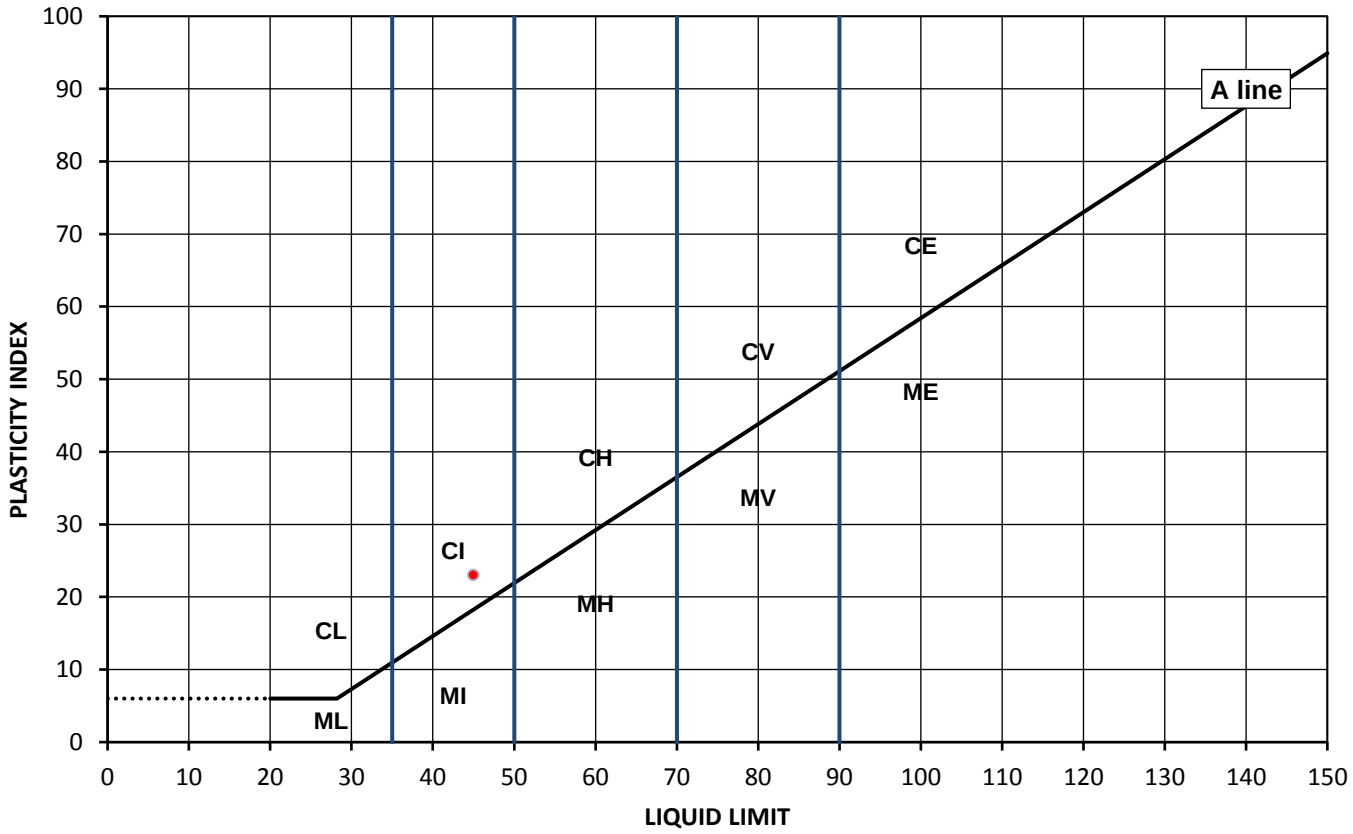
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	11/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059094	Depth Top [m]:	3.00
Hole No.:	WS03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
20	45	22	23	96



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

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Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

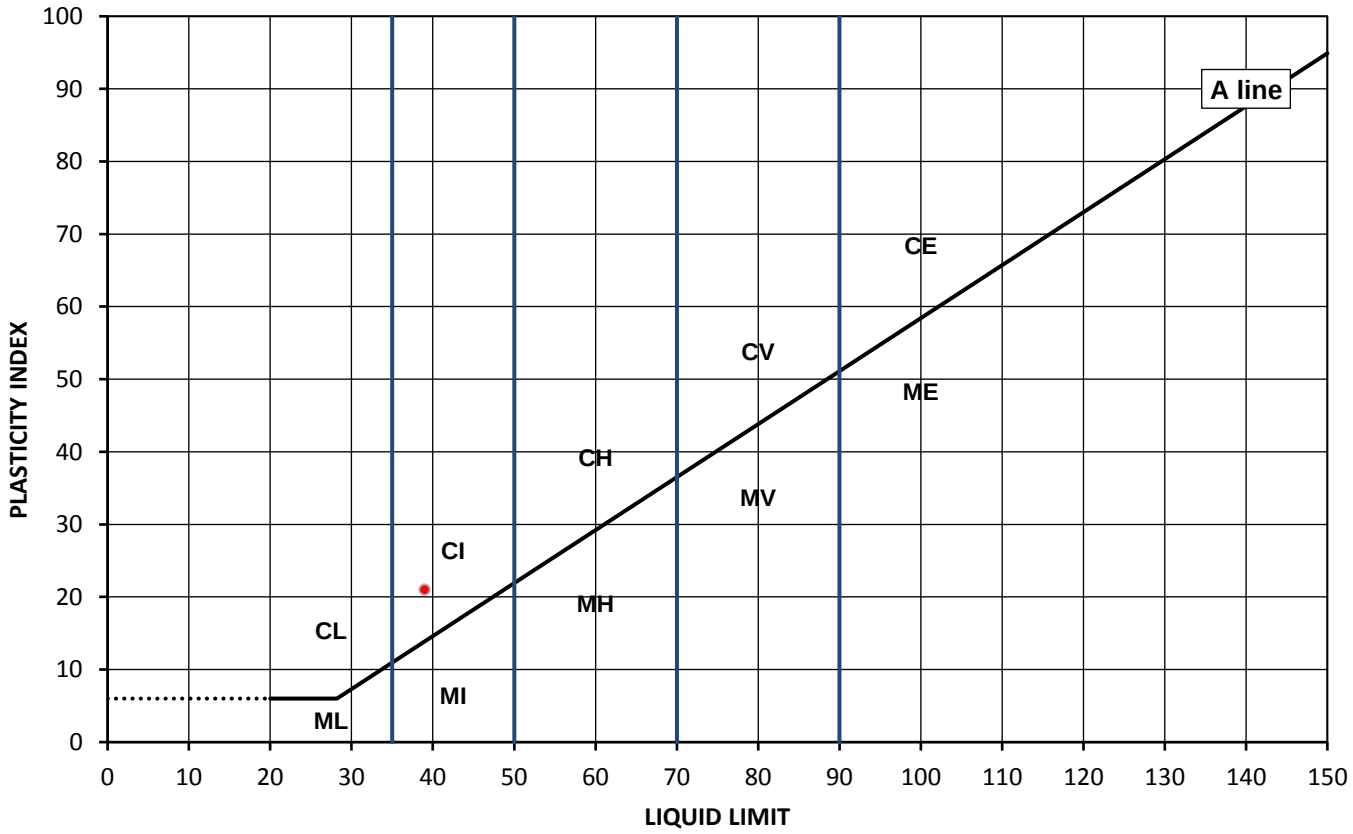
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	10/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059102	Depth Top [m]:	1.00
Hole No.:	WS08	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	39	18	21	96



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

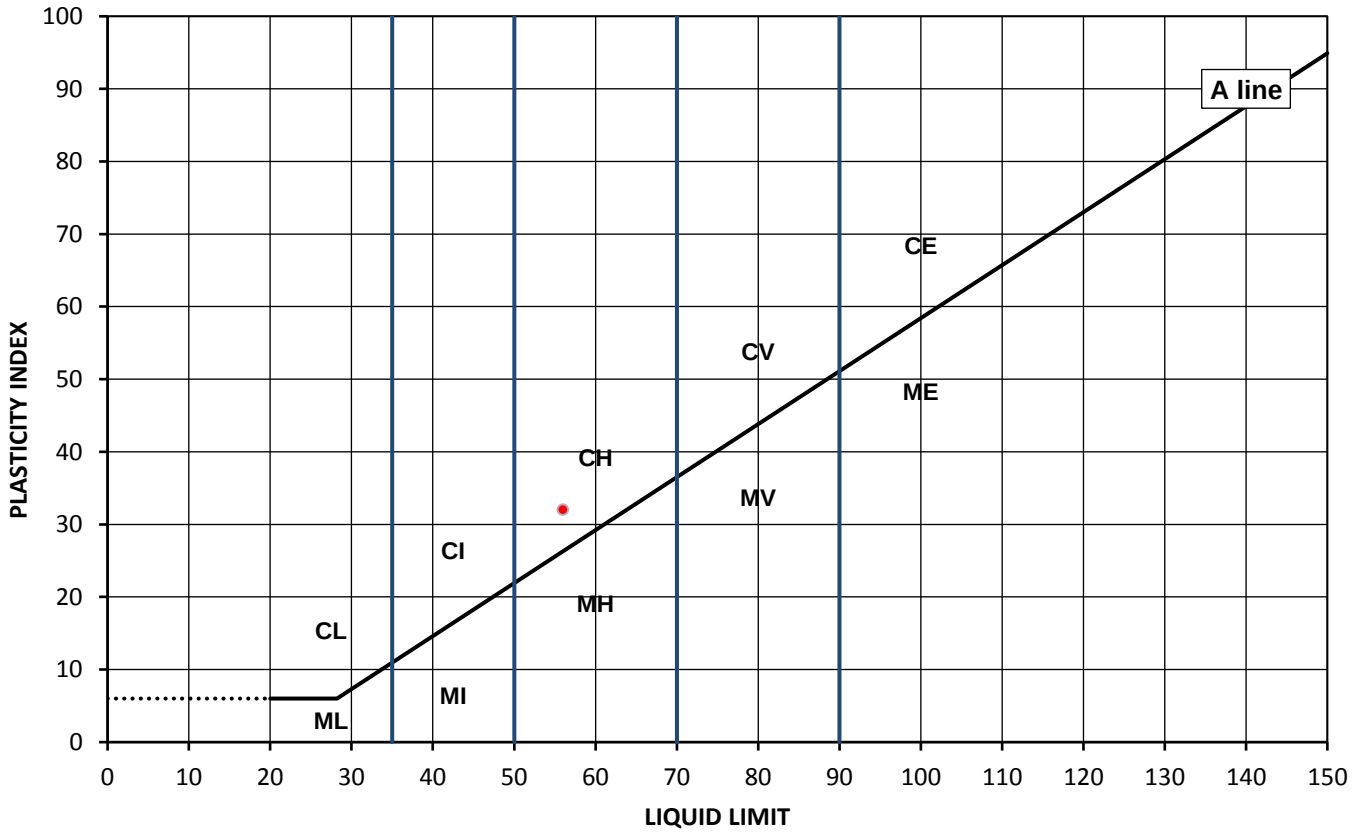
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	10/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059103	Depth Top [m]:	2.20
Hole No.:	WS08	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
22	56	24	32	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

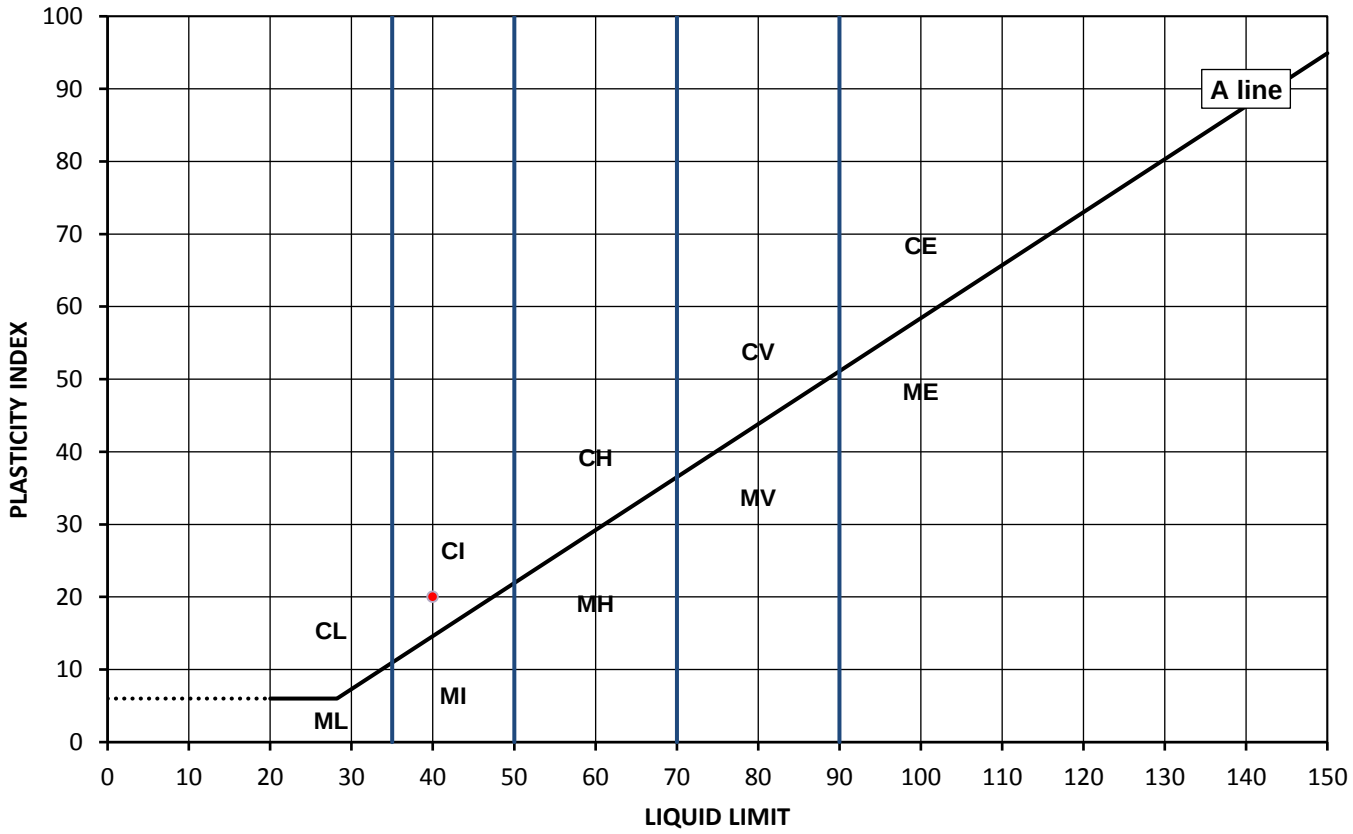
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	10/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059104	Depth Top [m]:	3.00
Hole No.:	WS08	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
15	40	20	20	94



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

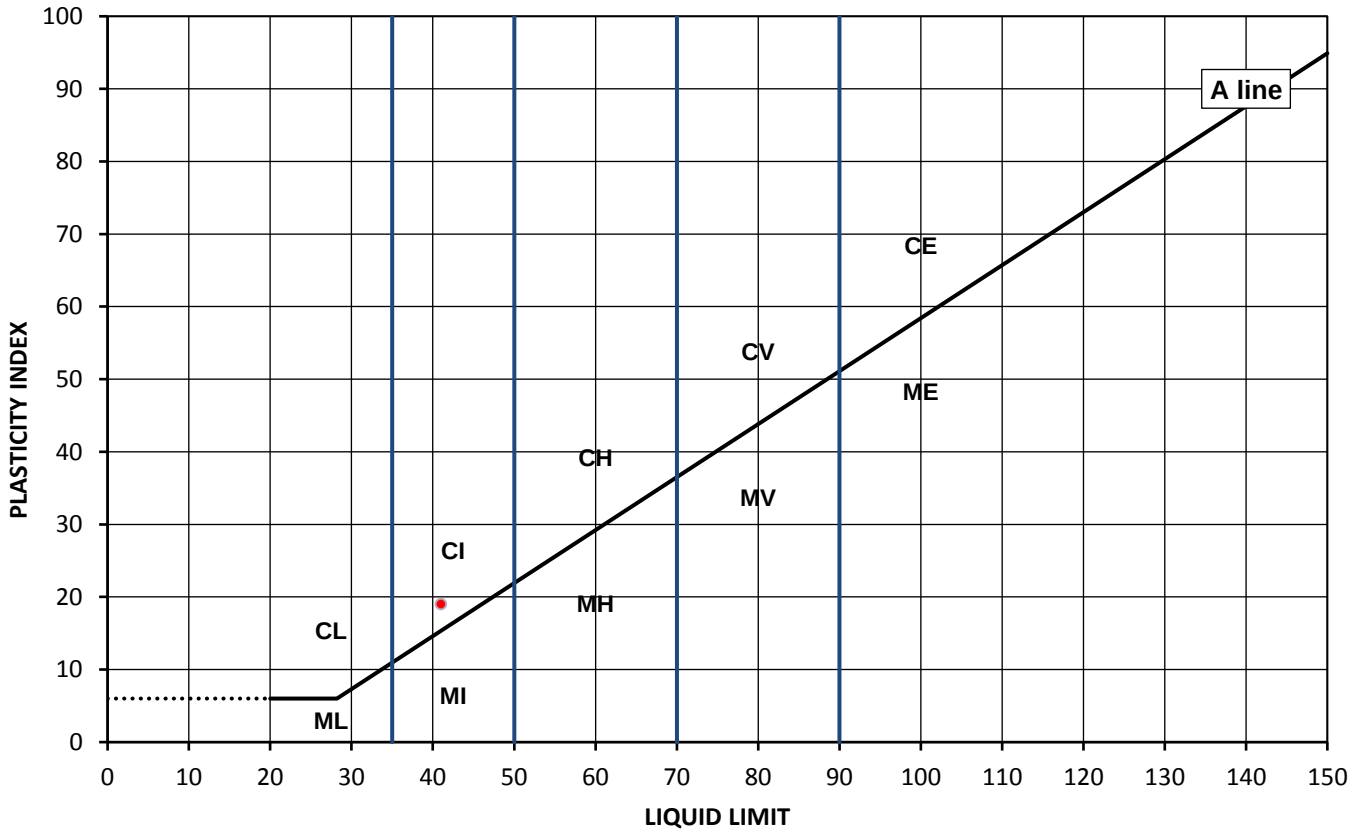
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	10/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059105	Depth Top [m]:	3.90
Hole No.:	WS08	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
18	41	22	19	94



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

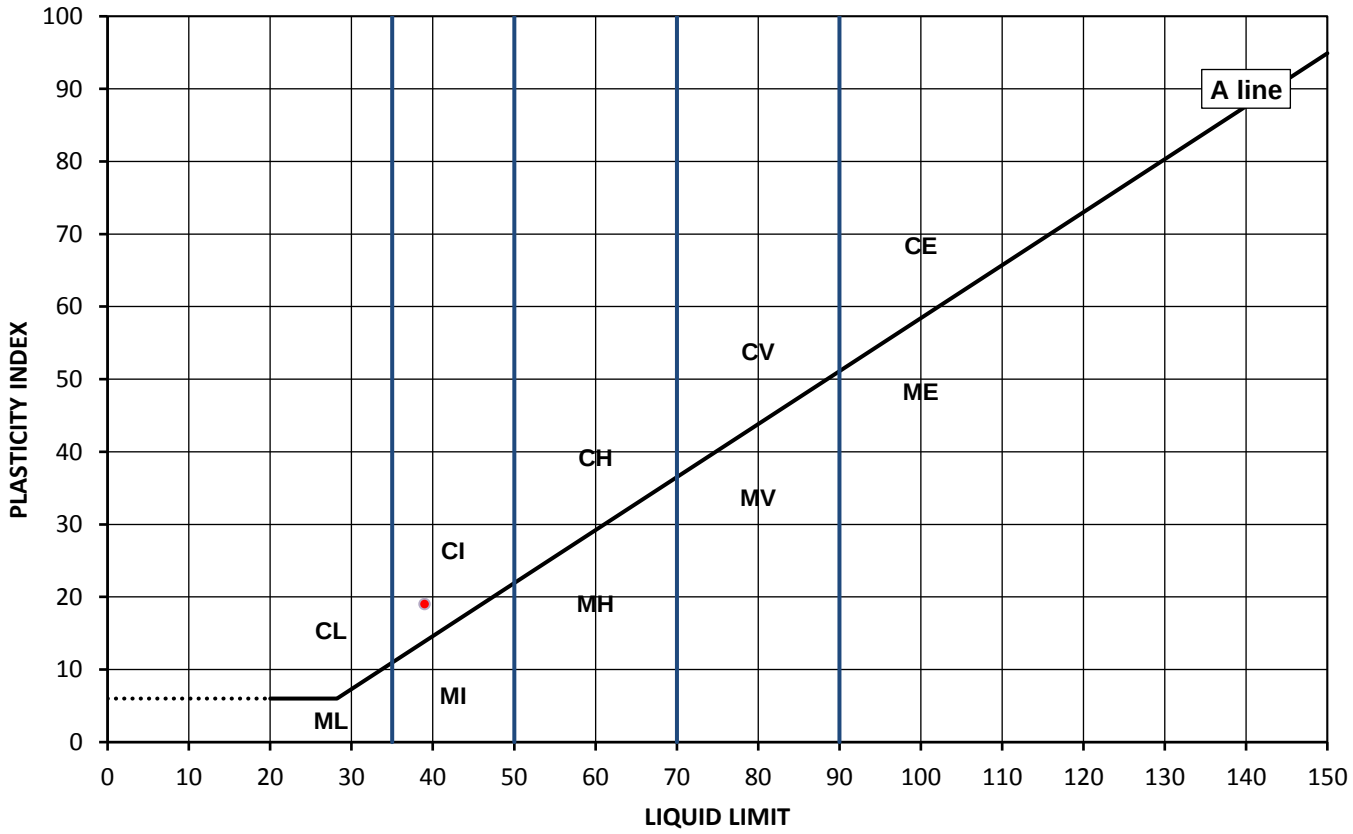
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059113	Depth Top [m]:	1.00
Hole No.:	WS21	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
15	39	20	19	97



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

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7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

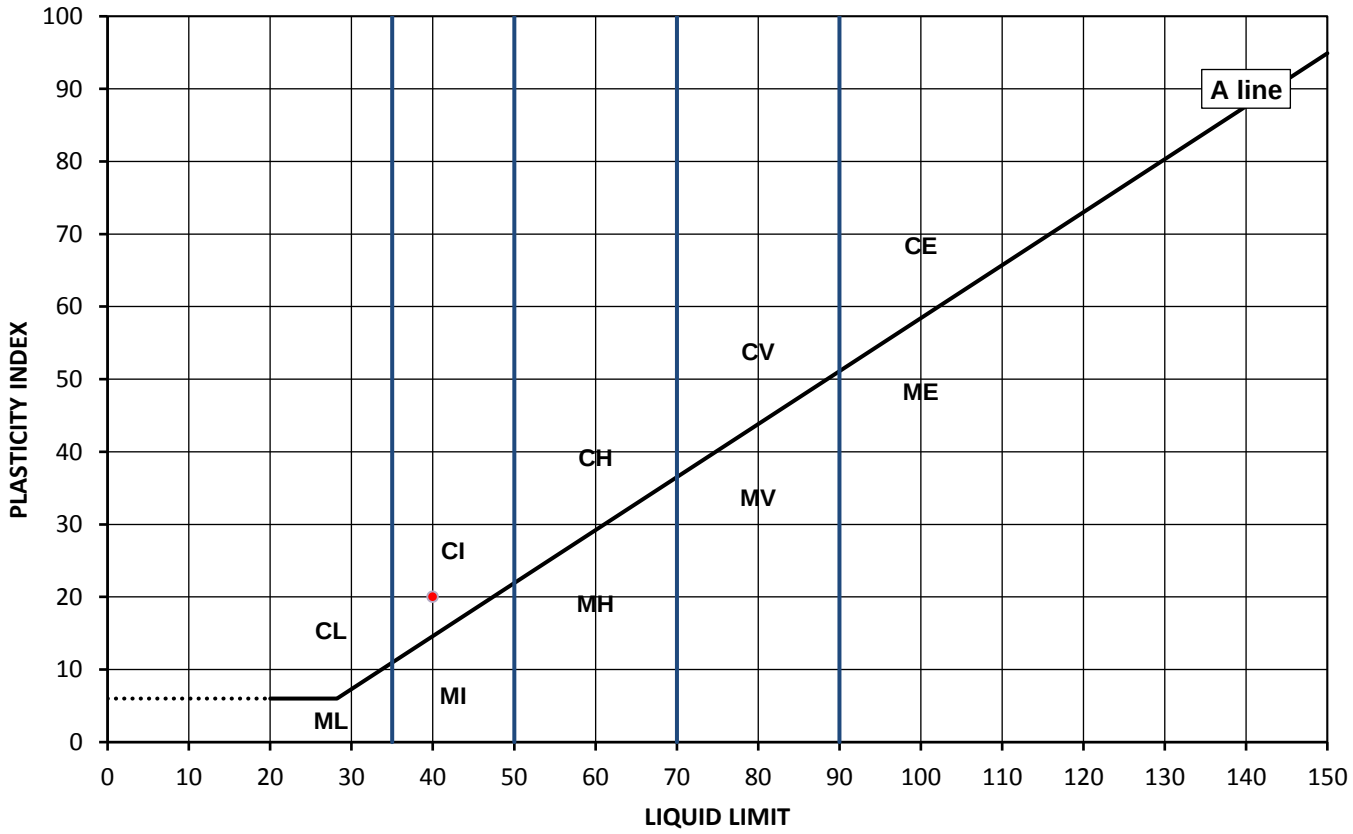
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059114	Depth Top [m]:	2.00
Hole No.:	WS21	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
15	40	20	20	88



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

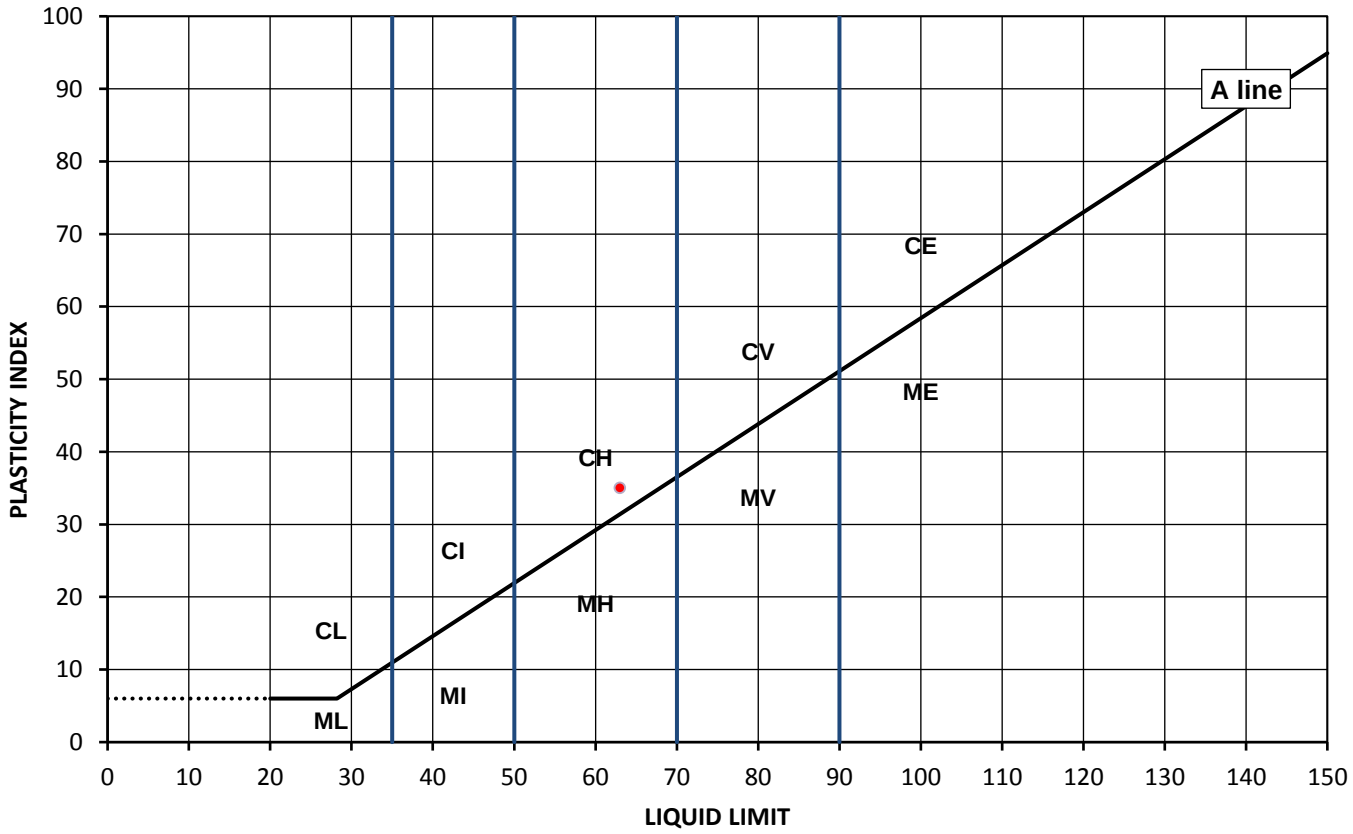
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	14/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059116	Depth Top [m]:	2.50
Hole No.:	WS42	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown CLAY		

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	63	28	35	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

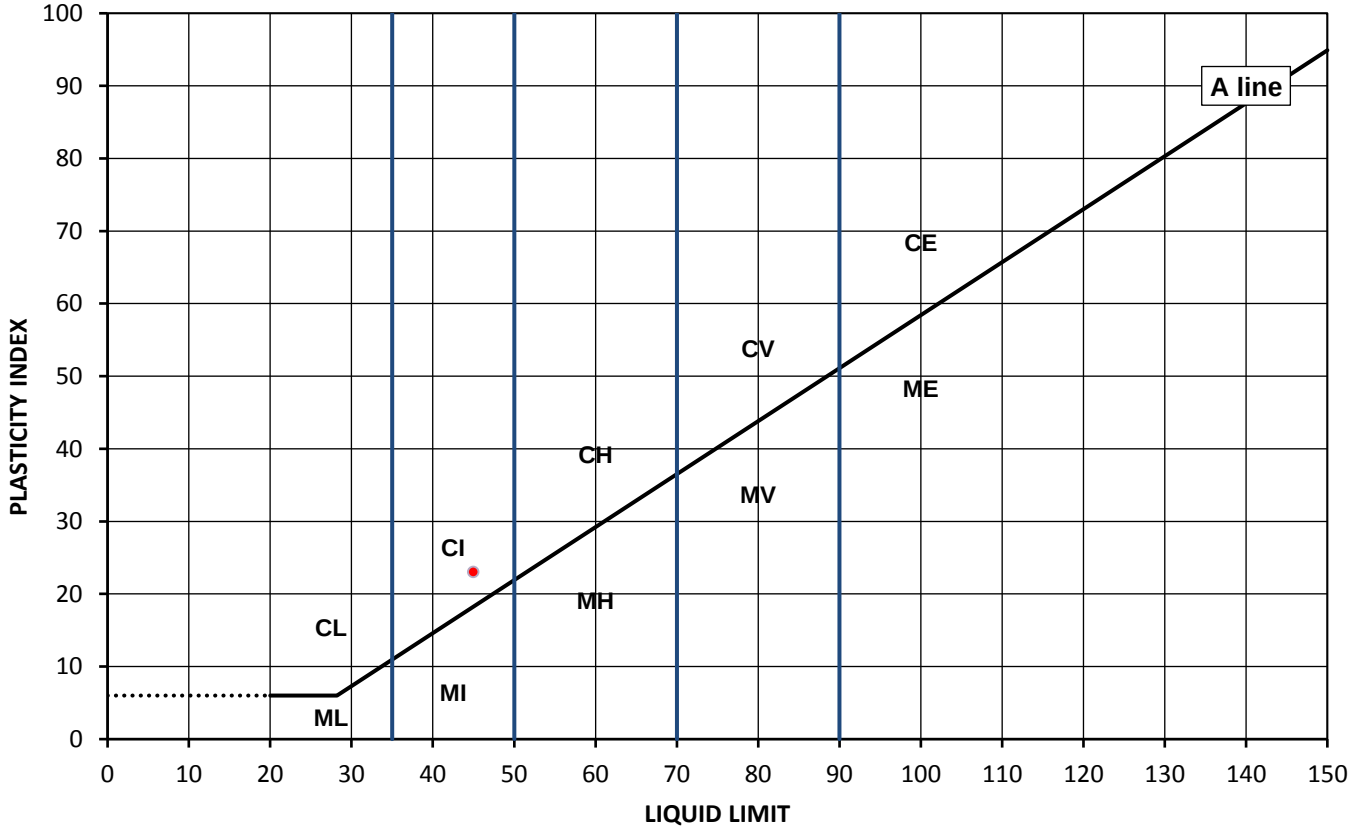
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059117	Depth Top [m]:	1.00
Hole No.:	WS37	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly gravelly sandy CLAY		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	45	22	23	97



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

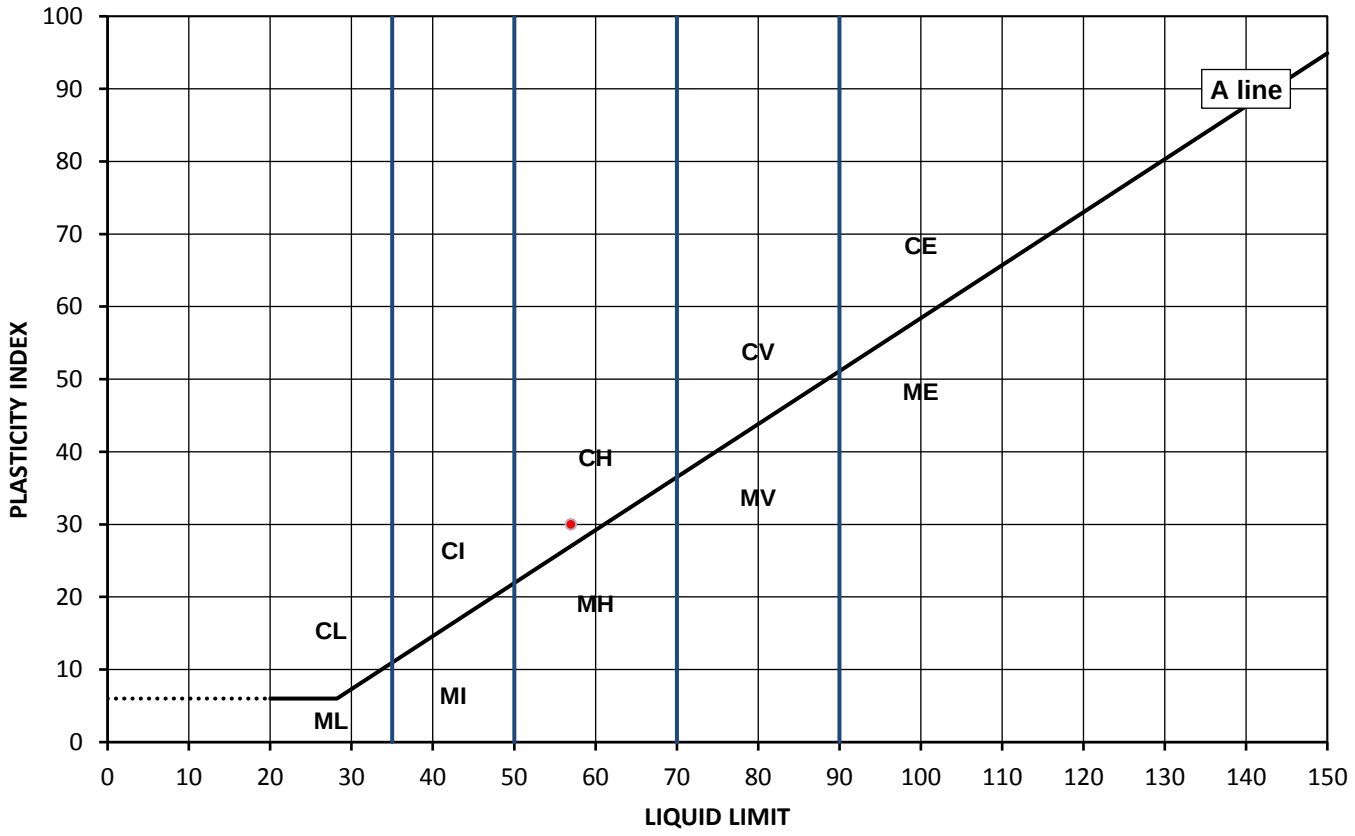
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059119	Depth Top [m]:	3.00
Hole No.:	WS37	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	57	27	30	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

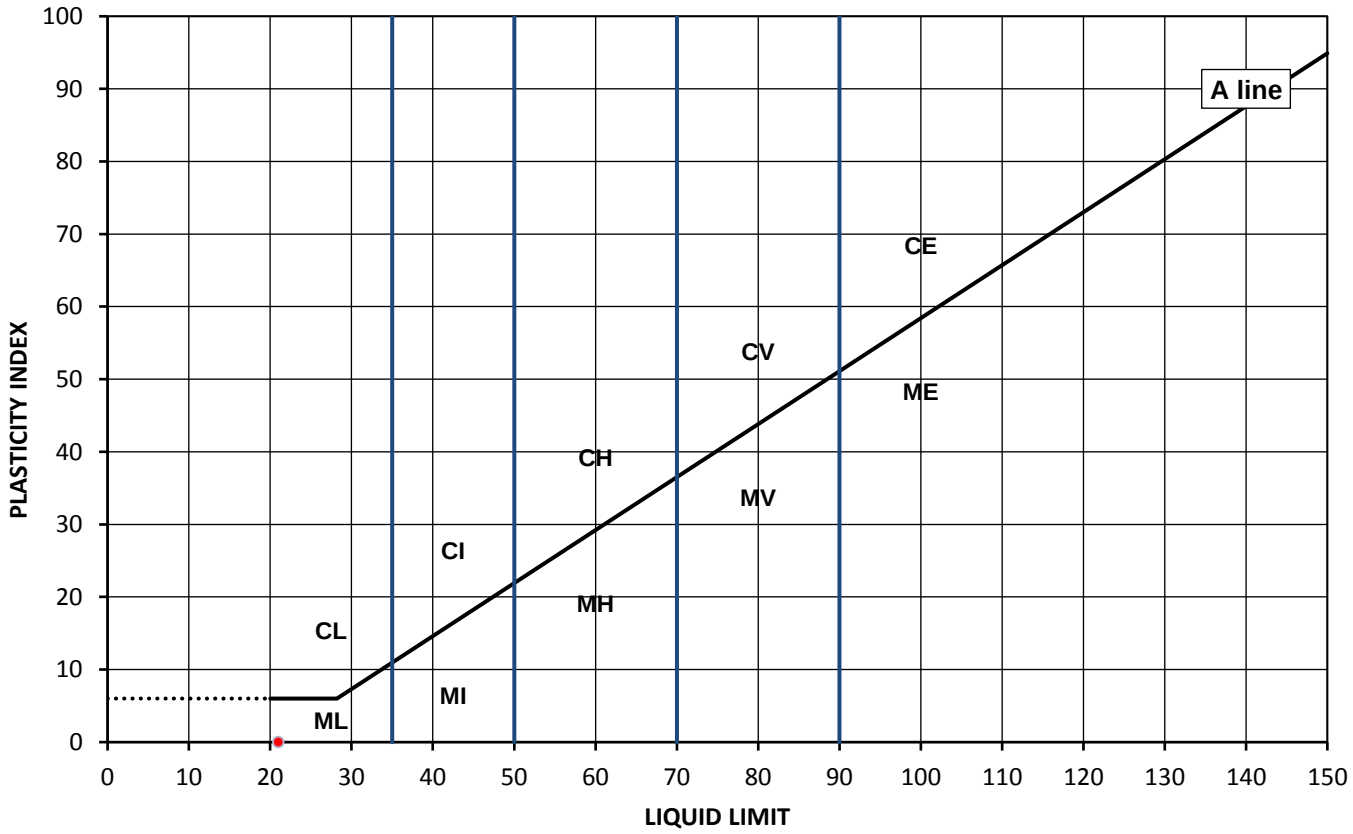
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	14/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059123	Depth Top [m]:	2.35
Hole No.:	WS29	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Grey to brown gravelly SAND		

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	21	NP	N/A	66



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

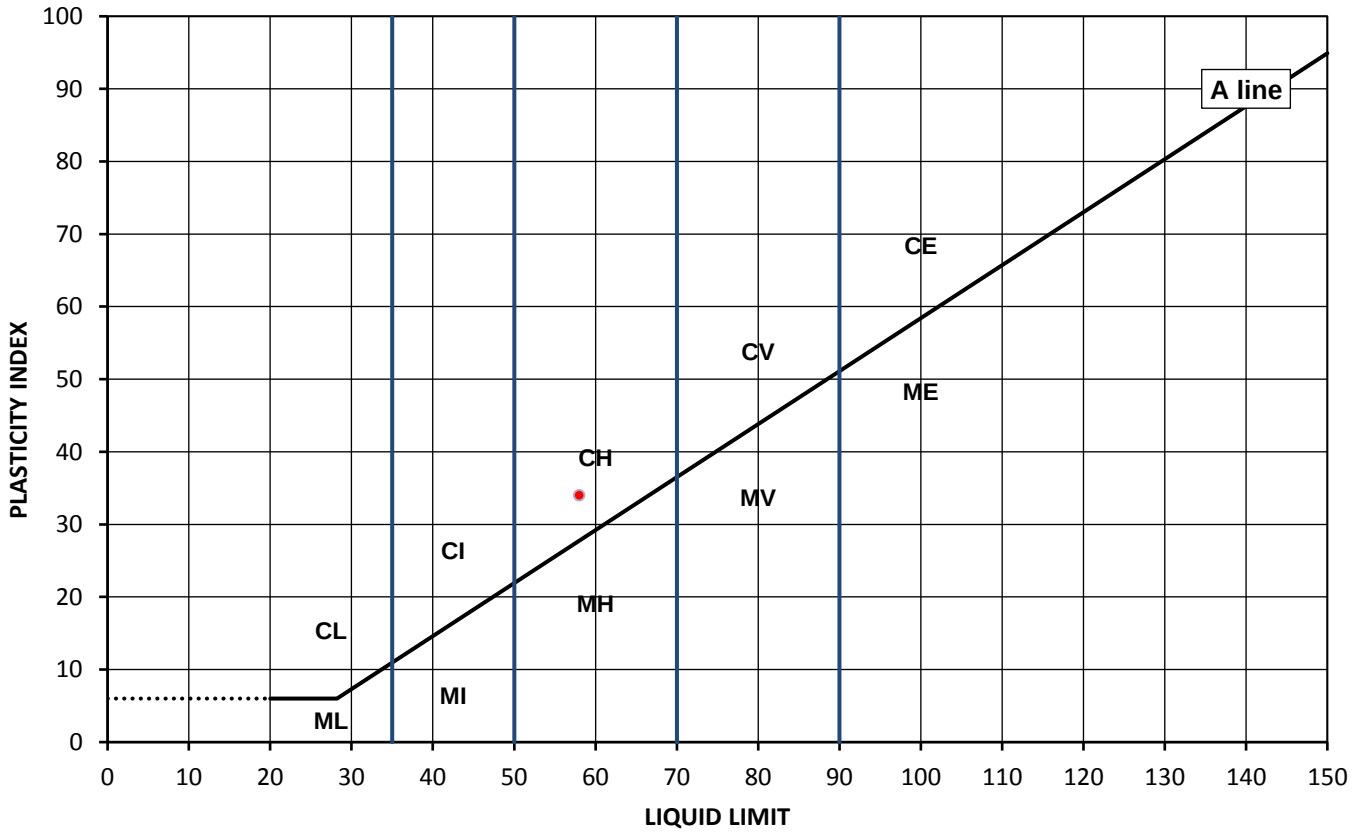
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	14/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059124	Depth Top [m]:	4.60
Hole No.:	WS29	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	58	24	34	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

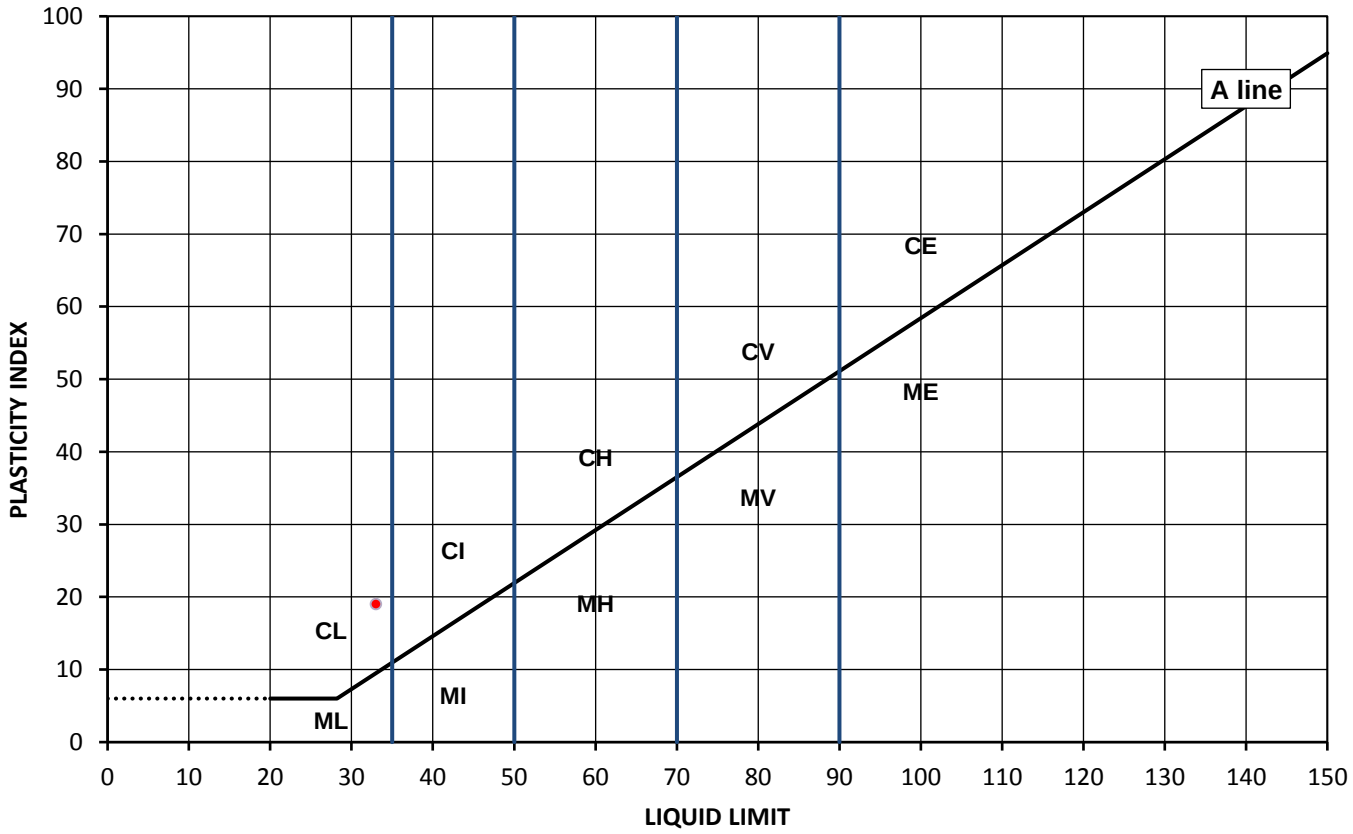
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	15/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059125	Depth Top [m]:	2.00
Hole No.:	WS31	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Brown very sandy CLAY		

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	33	14	19	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

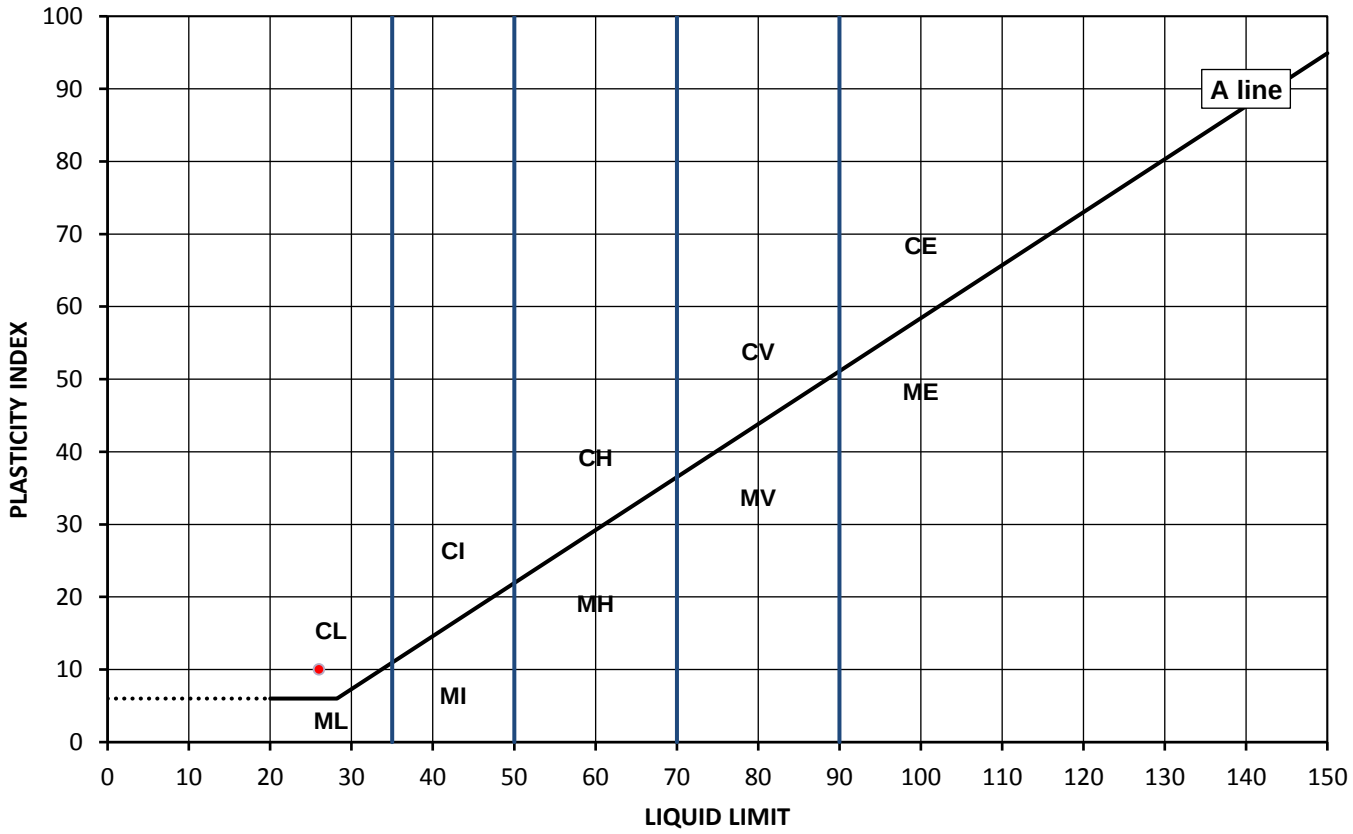
Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	21/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059131	Depth Top [m]:	0.50
Hole No.:	WS30	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Yellowish brown slightly gravelly very sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
6.4	26	16	10	80



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

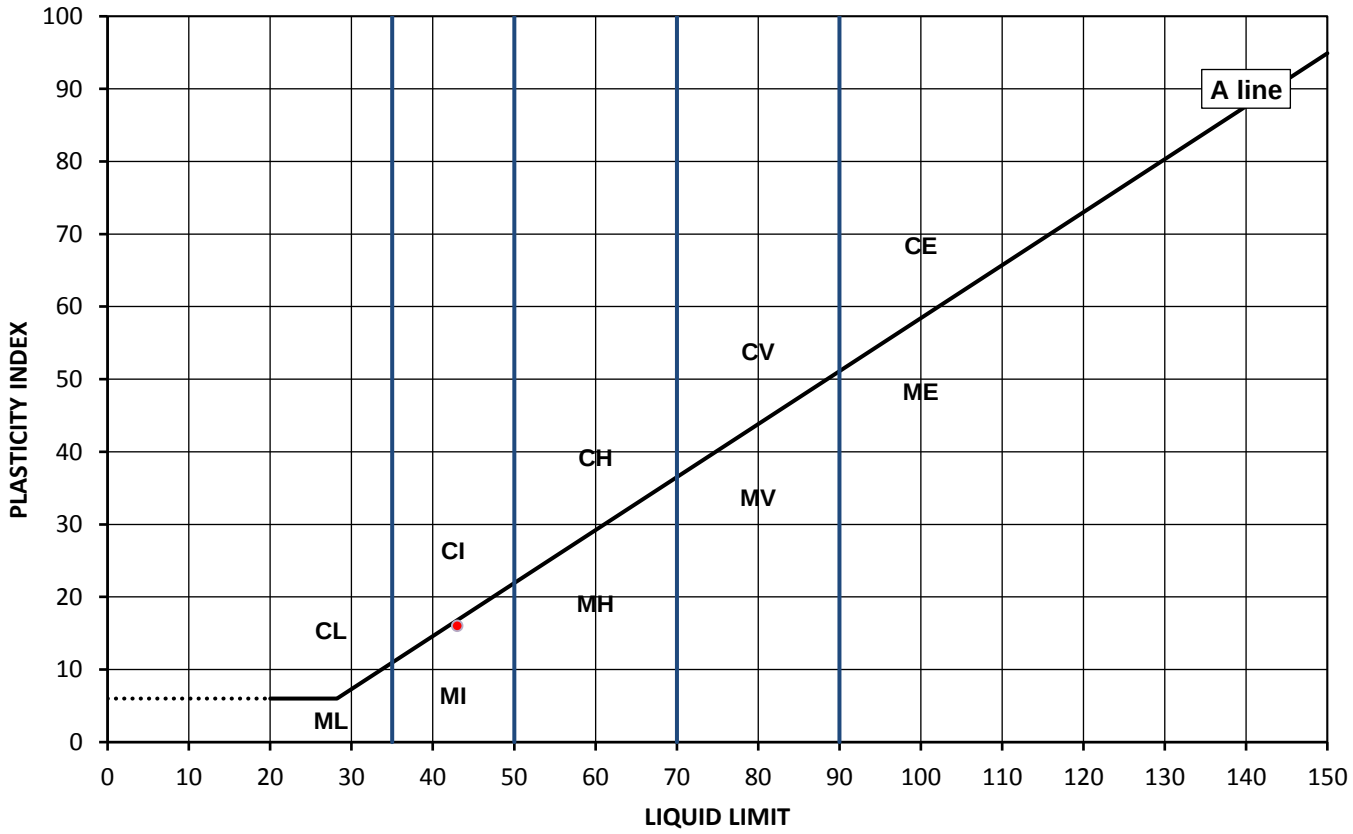
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	21/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059132	Depth Top [m]:	1.50
Hole No.:	WS30	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Grey sandy CLAY		

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
30	43	27	16	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Liquid and Plastic Limits

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

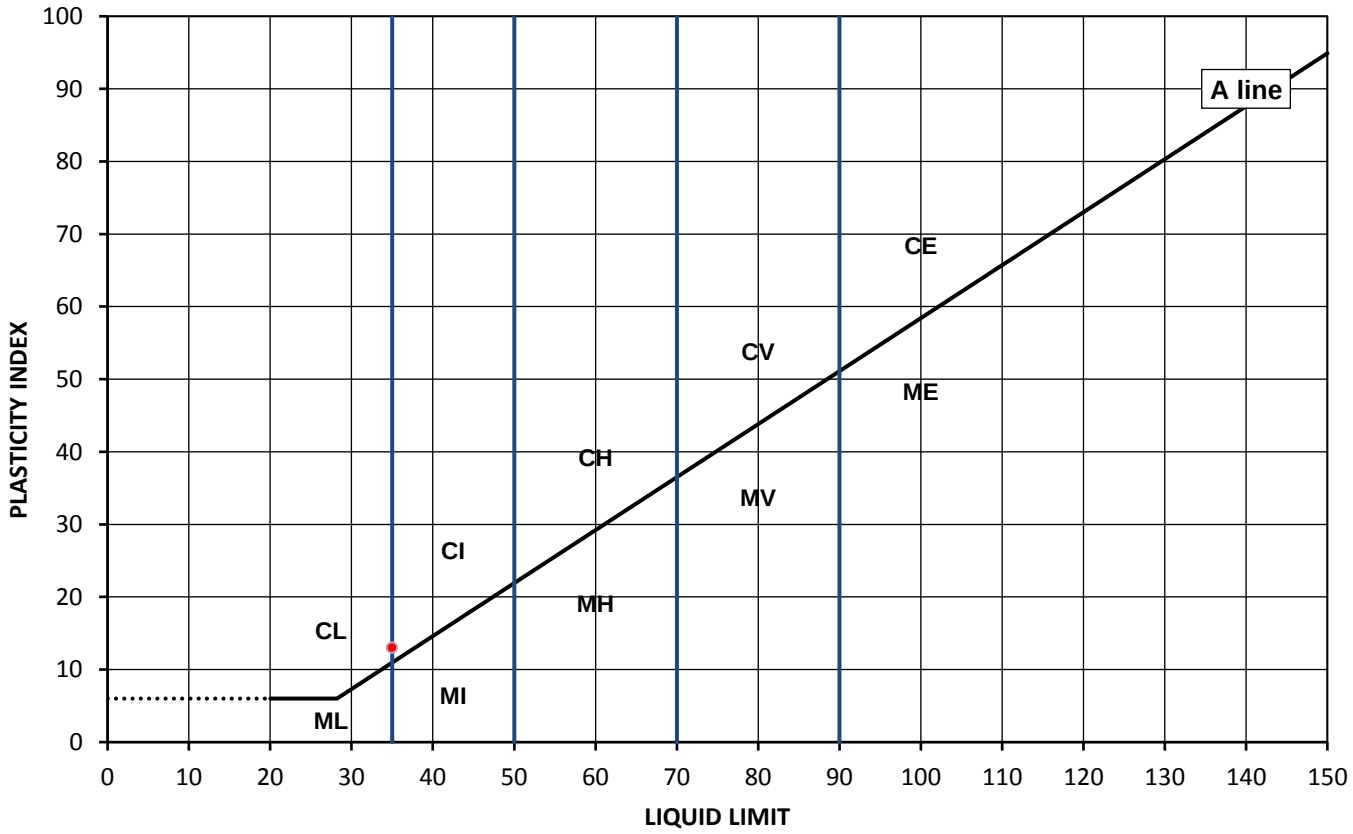
Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	21/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results

Laboratory Reference:	1059134	Depth Top [m]:	3.50
Hole No.:	WS30	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	D
Soil Description:	Grey sandy CLAY		

Sample Preparation: Tested in natural condition

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	35	22	13	100



Legend, based on BS 5930:2015 Code of practice for site investigations

		Plasticity		Liquid Limit
C	Clay	L	Low	below 35
M	Silt	I	Medium	35 to 50
		H	High	50 to 70
		V	Very high	70 to 90
		E	Extremely high	exceeding 90
	Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 236.3

for and on behalf of i2 Analytical Ltd

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Environmental Science

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Hydrock Consultants Ltd

Client Address: 2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire, NN6 8LD

Contact: Julian Charlesworth

Site Name: Hinckley NRFI

Site Address: Not Given

Client Reference: C-07700-C

Job Number: 18-12741

Date Sampled: 20/08 - 21/08/2018

Date Received: 29/08/2018

Date Tested: 09/10/2018

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	LL %	PL %	PI %	bulk Mg/m3	PD Mg/m3	Mg/m3				
1059085	TP05	Not Given	1.00	1.20	B	Greyish brown slightly gravelly sandy CLAY	Atterberg 4 Point	13	91	43	20	23							
1059079	TP09	Not Given	2.00	2.20	B	Grey mottled brown slightly sandy silty CLAY	Atterberg 4 Point	17	100	61	27	34							
1059081	TP09	Not Given	3.80	4.00	B	Brown silty slightly sandy CLAY	Atterberg 4 Point	24	99	63	28	35							
1059086	TP10	Not Given	2.00	2.20	B	Brown mottled grey slightly gravelly very sandy CLAY	Atterberg 4 Point	12	91	28	16	12							
1059088	TP12	Not Given	1.50	Not Given	B	Brownish grey slightly gravelly CLAY	Atterberg 4 Point	18	88	71	31	40							
1059080	TP14	Not Given	1.80	2.00	B	Brown silty slightly sandy CLAY	Atterberg 4 Point	21	96	50	25	25							
1059082	TP16	Not Given	1.80	2.00	B	Red silty clayey SAND	Atterberg 4 Point	25	100	39	26	13							
1059084	TP16	Not Given	3.00	3.10	B	Cream color slightly gravelly clayey SAND	Atterberg 4 Point	16	73	25	15	10							
1059083	TP161	Not Given	3.60	4.00	B	Reddish brown silty clayey SAND	Atterberg 4 Point	26	93	27	17	10							
1059087	TP21	Not Given	2.00	2.30	B	Brown mottled grey slightly gravelly sandy CLAY	Atterberg 4 Point	16	97	40	23	17							

Note: # UKAS accredited; NP - Non plastic

Comments:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 238.4

for and on behalf of i2 Analytical Ltd

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Hydrock Consultants Ltd
Client Address: 2-4 Hawthorne Park, Holdenby Road, Spratton, Northamptonshire, NN6 8LD
Contact: Julian Charlesworth
Site Name: Hinckley NRFI
Site Address: Not Given

Client Reference: C-07700-C
Job Number: 18-12741
Date Sampled: 11/08 - 12/08/2018
Date Received: 29/08/2018
Date Tested: 10/10/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top	Depth Base	Type				% Passing 425um	LL	PL	PI	bulk	PD					
			m	m				%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3				
1059089	WS01	Not Given	1.00	Not Given	D	Brown CLAY	Atterberg 4 Point	28	100	68	27	41							
1059090	WS01	Not Given	2.00	Not Given	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	20	97	53	25	28							
1059091	WS01	Not Given	2.90	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19	71	41	25	16							
1059092	WS03	Not Given	1.00	Not Given	D	Brown slightly gravelly CLAY		13											
1059093	WS03	Not Given	2.00	Not Given	D	Brown slightly gravelly CLAY		16											
1059094	WS03	Not Given	3.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	20	96	45	22	23							
1059095	WS03	Not Given	4.00	Not Given	D	Brown slightly gravelly CLAY		16											
1059096	WS03	Not Given	4.80	Not Given	D	Brown CLAY		24											
1059097	WS04	Not Given	1.30	Not Given	D	Brown slightly gravelly CLAY		16											
1059098	WS04	Not Given	1.90	Not Given	D	Brown SAND		14											

Note: # UKAS accredited; NP - Non plastic

Comments:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 238.4

for and on behalf of i2 Analytical Ltd

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Hydrock Consultants Ltd
Client Address: 2-4 Hawthorne Park, Holdenby Road, Spratton, Northamptonshire, NN6 8LD
Contact: Julian Charlesworth
Site Name: Hinckley NRFI
Site Address: Not Given

Client Reference: C-07700-C
Job Number: 18-12741
Date Sampled: 10/08 - 11/08/2018
Date Received: 29/08/2018
Date Tested: 10/10/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	LL %	PL %	PI %	bulk Mg/m3	PD Mg/m3	Mg/m3				
1059099	WS07	Not Given	1.90	Not Given	D	Brown SAND		8.3											
1059100	WS07	Not Given	2.70	Not Given	D	Brown SAND		8.5											
1059101	WS07	Not Given	4.00	Not Given	D	Brown SAND		5.8											
1059102	WS08	Not Given	1.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	16	96	39	18	21							
1059103	WS08	Not Given	2.20	Not Given	D	Brown slightly sandy CLAY	Atterberg 4 Point	22	100	56	24	32							
1059104	WS08	Not Given	3.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15	94	40	20	20							
1059105	WS08	Not Given	3.90	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	18	94	41	22	19							
1059106	WS09	Not Given	1.00	Not Given	D	Brown slightly gravelly CLAY		14											
1059107	WS09	Not Given	2.00	Not Given	D	Brown slightly gravelly CLAY		23											
1059108	WS09	Not Given	3.00	Not Given	D	Brown slightly gravelly CLAY		23											

Note: # UKAS accredited; NP - Non plastic

Comments:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 238.4

for and on behalf of i2 Analytical Ltd

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Hydrock Consultants Ltd
Client Address: 2-4 Hawthorne Park, Holdenby Road, Spratton, Northamptonshire, NN6 8LD
Contact: Julian Charlesworth
Site Name: Hinckley NRFI
Site Address: Not Given

Client Reference: C-07700-C
Job Number: 18-12741
Date Sampled: 11/08 - 21/08/2018
Date Received: 29/08/2018
Date Tested: 10/10/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	LL %	PL %	PI %	bulk Mg/m3	PD Mg/m3	Mg/m3				
1059109	WS09	Not Given	4.00	Not Given	D	Brown slightly gravelly CLAY		21											
1059110	WS09	Not Given	4.80	Not Given	D	Grey slightly clayey SAND		11											
1059111	WS10	Not Given	3.50	Not Given	D	Brown slightly gravelly sandy CLAY		21											
1059112	WS10	Not Given	4.50	Not Given	D	Brown slightly gravelly sandy CLAY		18											
1059113	WS21	Not Given	1.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15	97	39	20	19							
1059114	WS21	Not Given	2.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15	88	40	20	20							
1059122	WS29	Not Given	1.50	Not Given	D	Brown slightly sandy CLAY		21											
1059123	WS29	Not Given	2.35	Not Given	D	Grey to brown gravelly SAND	Atterberg 4 Point	16	66	21	NP	N/A							
1059124	WS29	Not Given	4.60	Not Given	D	Brown slightly sandy CLAY	Atterberg 4 Point	21	100	58	24	34							
1059131	WS30	Not Given	0.50	Not Given	D	Yellowish brown slightly gravelly very sandy CLAY	Atterberg 4 Point	6.4	80	26	16	10							

Note: # UKAS accredited; NP - Non plastic

Comments:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 238.4

for and on behalf of i2 Analytical Ltd

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Hydrock Consultants Ltd
Client Address: 2-4 Hawthorne Park, Holdenby Road, Spratton, Northamptonshire, NN6 8LD
Contact: Julian Charlesworth
Site Name: Hinckley NRFI
Site Address: Not Given

Client Reference: C-07700-C
Job Number: 18-12741
Date Sampled: 09/08 - 21/08/2018
Date Received: 29/08/2018
Date Tested: 10/10/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	LL %	PL %	PI %	bulk Mg/m3	PD Mg/m3	Mg/m3				
1059132	WS30	Not Given	1.50	Not Given	D	Grey sandy CLAY	Atterberg 4 Point	30	100	43	27	16							
1059133	WS30	Not Given	2.50	Not Given	D	Dark brown sandy CLAY		21											
1059134	WS30	Not Given	3.50	Not Given	D	Grey sandy CLAY	Atterberg 4 Point	23	100	35	22	13							
1059125	WS31	Not Given	2.00	Not Given	D	Brown very sandy CLAY	Atterberg 4 Point	25	100	33	14	19							
1059126	WS31	Not Given	3.00	Not Given	D	Dark brown clayey SAND		16											
1059127	WS34	Not Given	0.80	Not Given	D	Brown clayey SAND		5.1											
1059128	WS34	Not Given	1.50	Not Given	D	Brown slightly gravelly CLAY		14											
1059129	WS34	Not Given	3.00	Not Given	D	Brown slightly gravelly CLAY		14											
1059130	WS34	Not Given	3.50	Not Given	D	Brown slightly gravelly CLAY		15											
1059117	WS37	Not Given	1.00	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	16	97	45	22	23							

Note: # UKAS accredited; NP - Non plastic

Comments:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 238.4

for and on behalf of i2 Analytical Ltd

SUMMARY REPORT

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Environmental Science

Tested in Accordance with:

MC by BS 1377-2: 1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2

Client: Hydrock Consultants Ltd

Client Address: 2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire, NN6 8LD

Contact: Julian Charlesworth

Site Name: Hinckley NRFI

Site Address: Not Given

Client Reference: C-07700-C

Job Number: 18-12741

Date Sampled: 14/08 - 20/08/2018

Date Received: 29/08/2018

Date Tested: 10/10/2018

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	MC#	Atterberg#				Density		Total Porosity				
		Reference	Depth Top m	Depth Base m	Type			%	% Passing 425um %	LL %	PL %	PI %	bulk Mg/m3	PD Mg/m3	Mg/m3				
1059118	WS37	Not Given	2.00	Not Given	D	Brown slightly gravelly CLAY		18											
1059119	WS37	Not Given	3.00	Not Given	D	Brown slightly sandy CLAY	Atterberg 4 Point	26	100	57	27	30							
1059120	WS37	Not Given	4.00	Not Given	D	Brown slightly gravelly CLAY		14											
1059121	WS37	Not Given	5.00	Not Given	D	Brown CLAY		22											
1059115	WS42	Not Given	1.50	Not Given	D	Brown CLAY		23											
1059116	WS42	Not Given	2.50	Not Given	D	Brown CLAY	Atterberg 4 Point	24	100	63	28	35							

Note: # UKAS accredited; NP - Non plastic

Comments:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 238.4

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

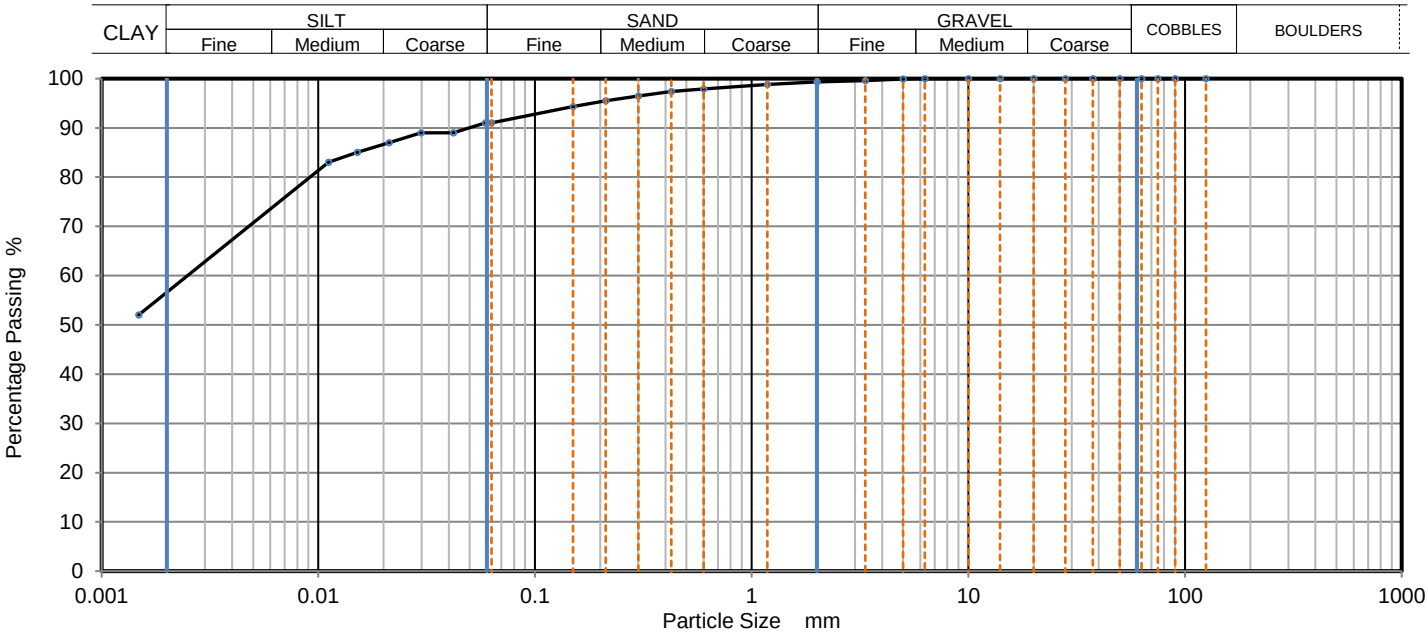
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059079	Depth Top [m]:	2.00
Hole No.:	TP09	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey mottled brown slightly sandy silty CLAY		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0589	91
90	100	0.0420	89
75	100	0.0297	89
63	100	0.0212	87
50	100	0.0151	85
37.5	100	0.0112	83
28	100	0.0015	52
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	98	Particle density	(assumed)
0.425	97	2.65	Mg/m3
0.3	97		
0.212	96		
0.15	94		
0.063	91		

Dry Mass of sample [g]: 272

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.70
Sand	8.00
Silt	35.00
Clay	56.30

Grading Analysis		
D100	mm	6.3
D60	mm	0.00253
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 100.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

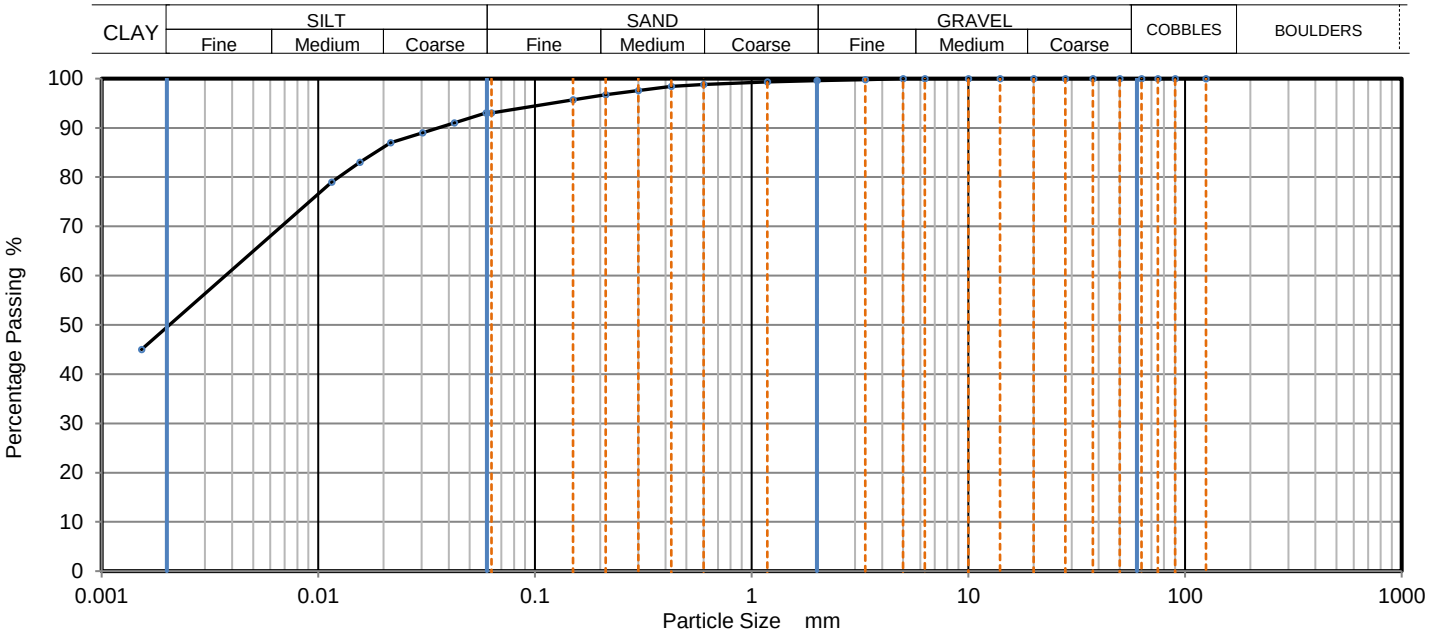
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059080	Depth Top [m]:	1.80
Hole No.:	TP14	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0594	93
90	100	0.0424	91
75	100	0.0303	89
63	100	0.0216	87
50	100	0.0155	83
37.5	100	0.0115	79
28	100	0.0015	45
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	99		
0.6	99	Particle density	(assumed)
0.425	98	2.65	Mg/m3
0.3	98		
0.212	97		
0.15	96		
0.063	93		

Dry Mass of sample [g]: 160

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.40
Sand	6.60
Silt	43.10
Clay	49.90

Grading Analysis		
D100	mm	5
D60	mm	0.00371
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 100.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

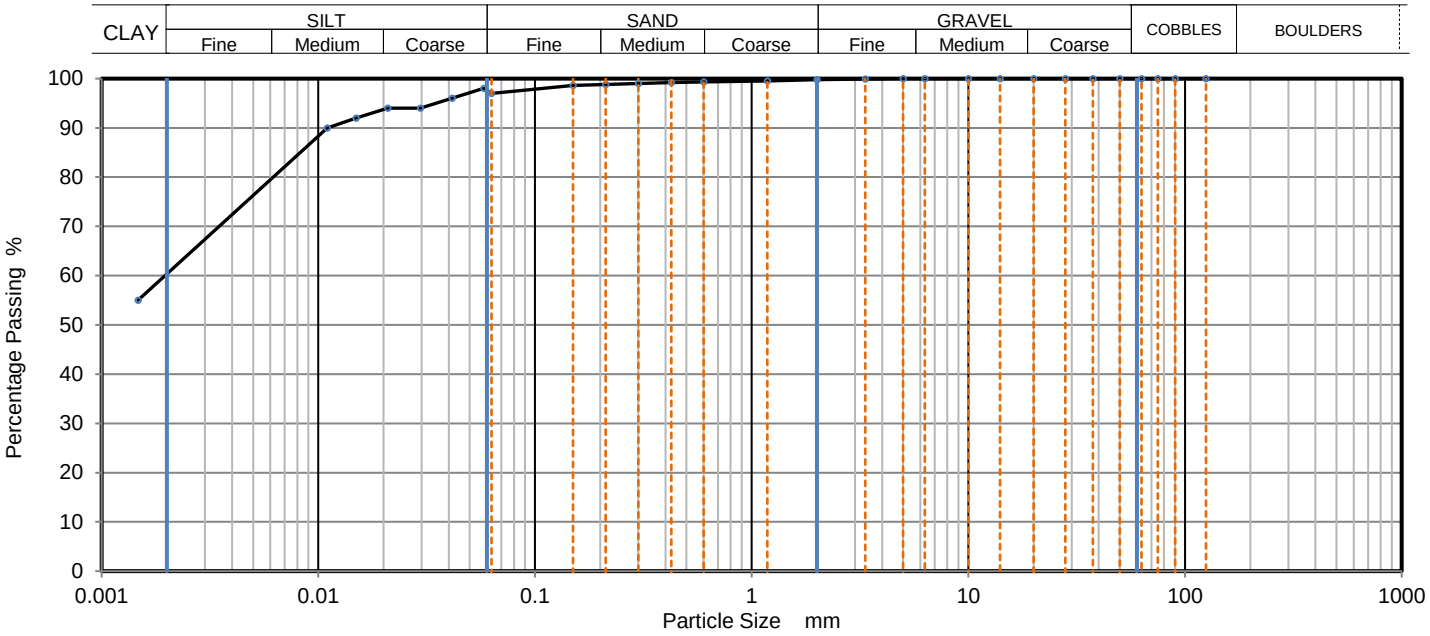
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059081	Depth Top [m]:	3.80
Hole No.:	TP09	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0581	98
90	100	0.0414	96
75	100	0.0296	94
63	100	0.0209	94
50	100	0.0149	92
37.5	100	0.0110	90
28	100	0.0015	55
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99	Particle density	(assumed)
0.425	99	2.65	Mg/m3
0.3	99		
0.212	99		
0.15	99		
0.063	98		

Dry Mass of sample [g]: 170

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.20
Sand	1.80
Silt	37.60
Clay	60.40

Grading Analysis		
D100	mm	5
D60	mm	0.00196
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 100.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

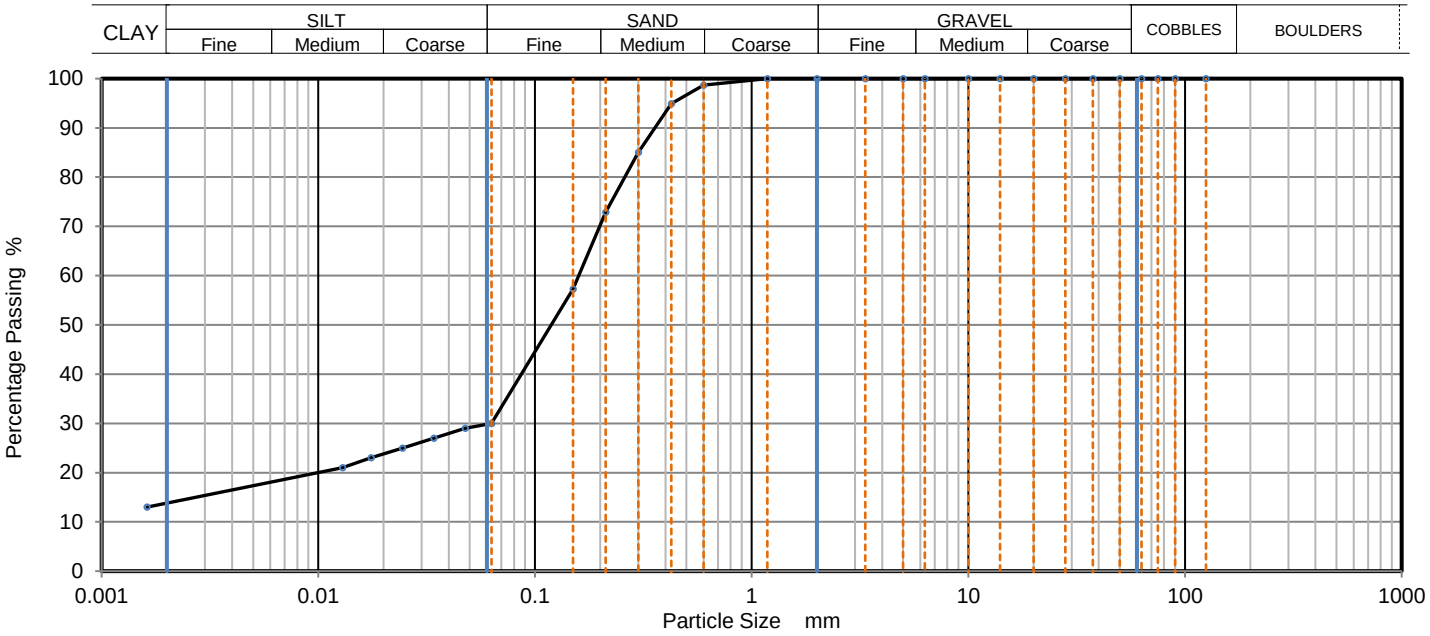
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059082	Depth Top [m]:	1.80
Hole No.:	TP16	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Red silty clayey SAND		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	30
90	100	0.0476	29
75	100	0.0341	27
63	100	0.0244	25
50	100	0.0175	23
37.5	100	0.0130	21
28	100	0.0016	13
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99	Particle density	(assumed)
0.425	95	2.65	Mg/m3
0.3	85		
0.212	73		
0.15	57		
0.063	30		

Dry Mass of sample [g]: 172

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.00
Sand	70.10
Silt	16.50
Clay	13.40

Grading Analysis		
D100	mm	3.35
D60	mm	0.159
D30	mm	0.0631
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 100.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Particle Size Distribution

Tested in Accordance with: BS 1377-2: 1990

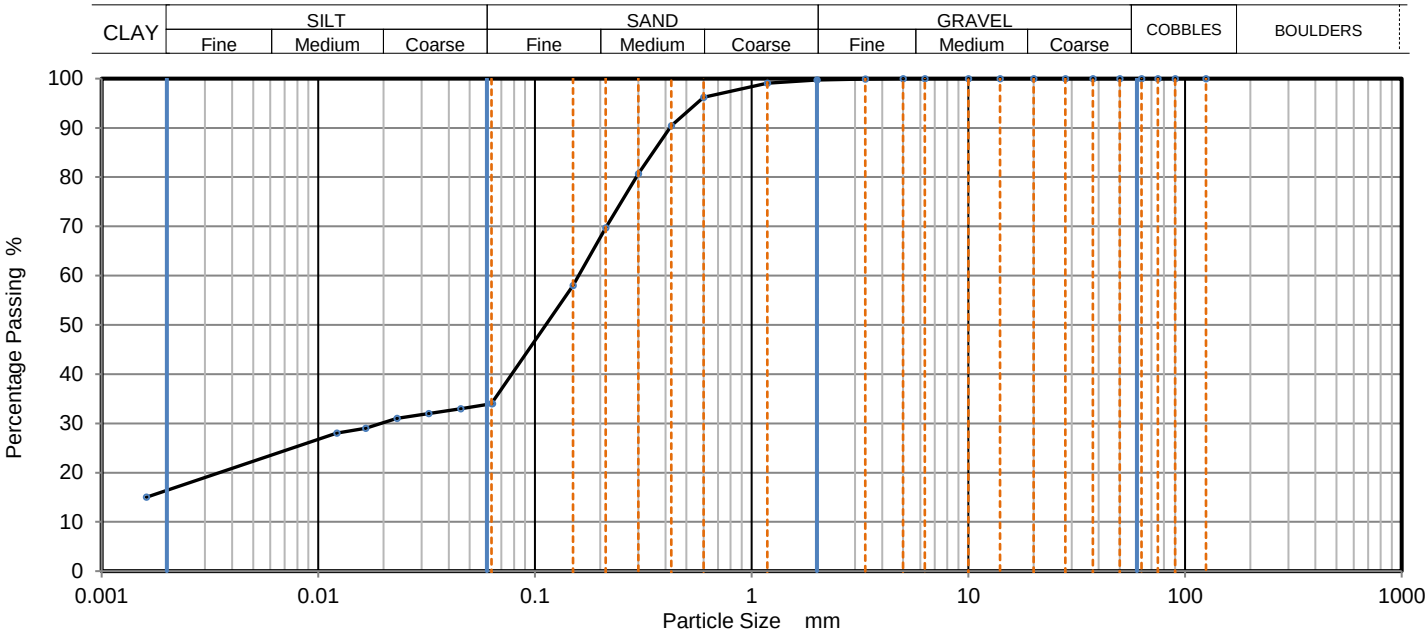
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059083	Depth Top [m]:	3.60
Hole No.:	TP161	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown silty clayey SAND		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0637	34
90	100	0.0454	33
75	100	0.0323	32
63	100	0.0231	31
50	100	0.0166	29
37.5	100	0.0122	28
28	100	0.0016	15
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	99		
0.6	96	Particle density	(assumed)
0.425	90	2.65	Mg/m3
0.3	81		
0.212	70		
0.15	58		
0.063	34		

Dry Mass of sample [g]: 198

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.30
Sand	65.70
Silt	17.80
Clay	16.20

Grading Analysis		
D100	mm	5
D60	mm	0.159
D30	mm	0.0184
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 100.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

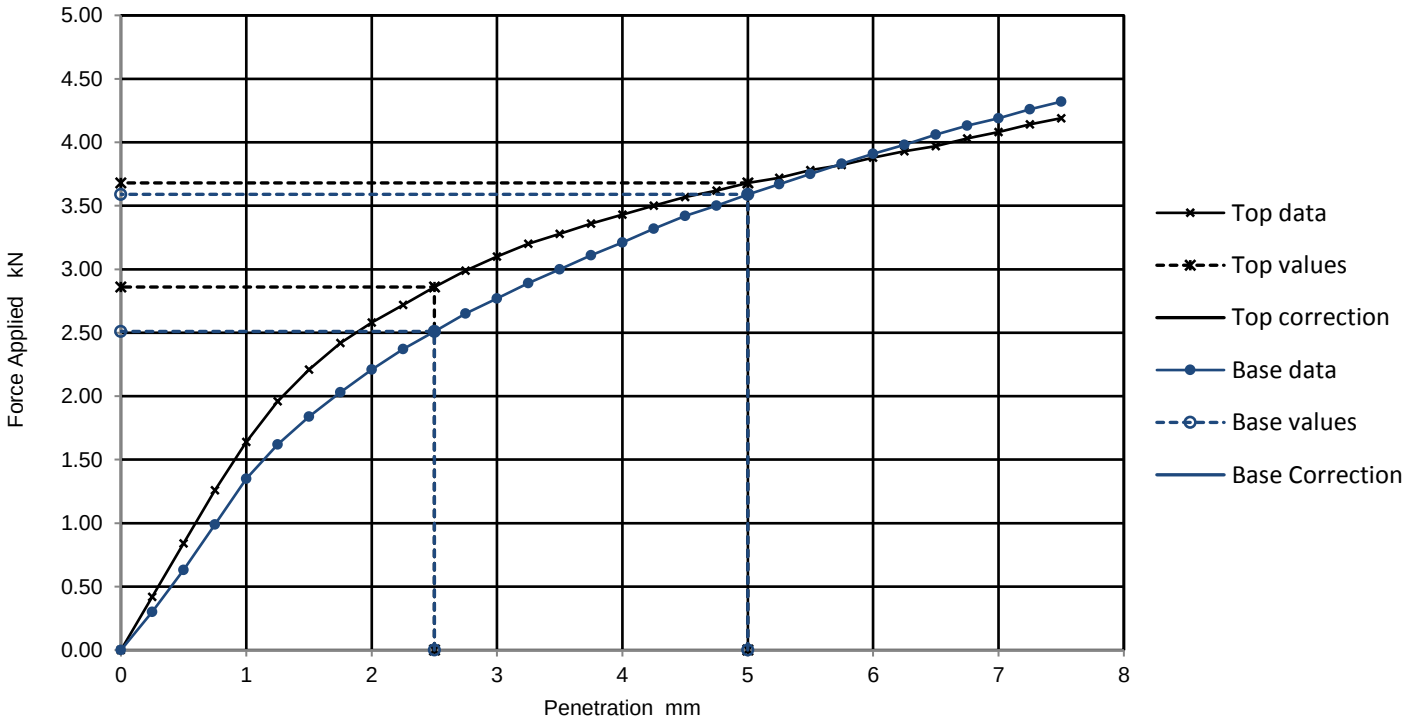
Laboratory Reference:	1059079	Depth Top [m]:	2.00
Hole No.:	TP09	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey mottled brown slightly sandy silty CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.92	Mg/m3	Surcharge applied	8 kg
	Dry density	1.66	Mg/m3		4.9 kPa
	Moisture content	16	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	22.0	18.0	22.0	20.0	16
BASE	No	19.0	18.0	19.0		16

Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

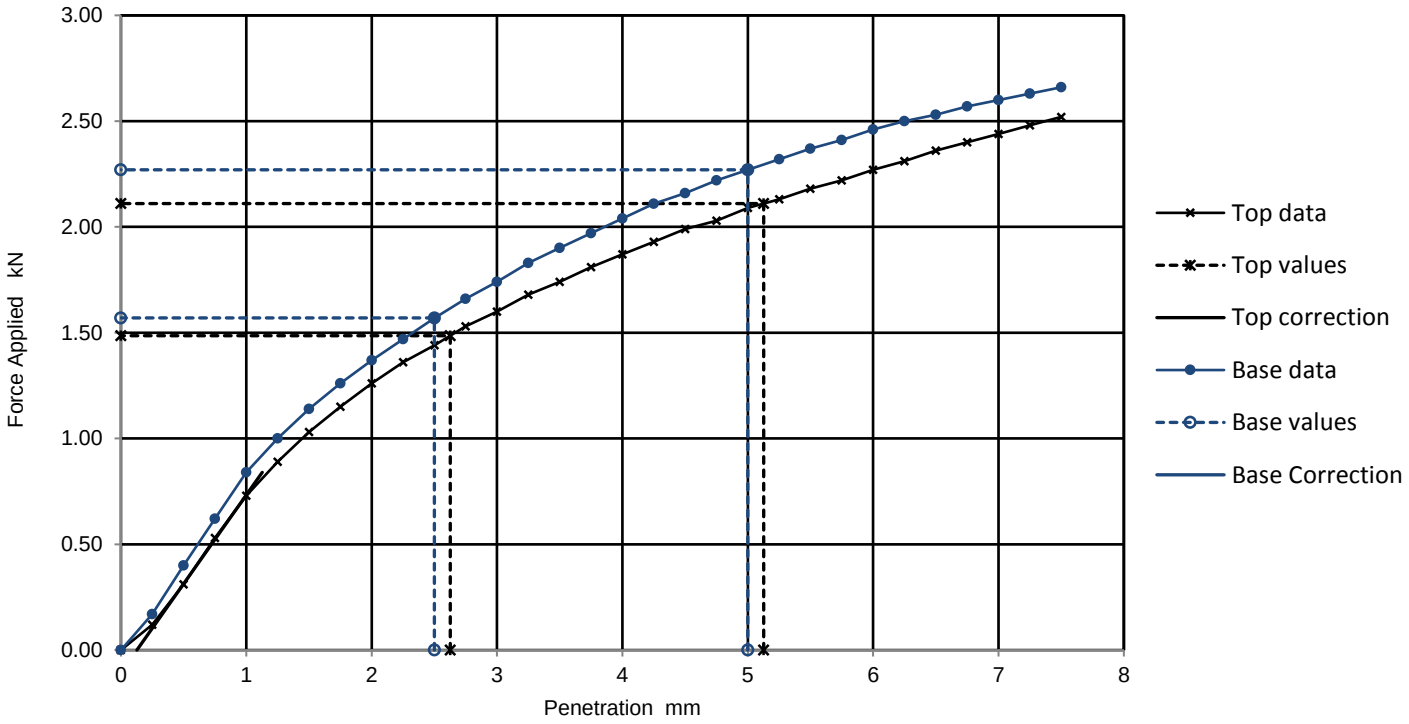
Laboratory Reference:	1059080	Depth Top [m]:	1.80
Hole No.:	TP14	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.03	Mg/m3	Surcharge applied	8 kg
	Dry density	1.69	Mg/m3		4.8 kPa
	Moisture content	20	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	11.0	11.0	11.0	12.0	20
BASE	No	12.0	11.0	12.0		20

Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

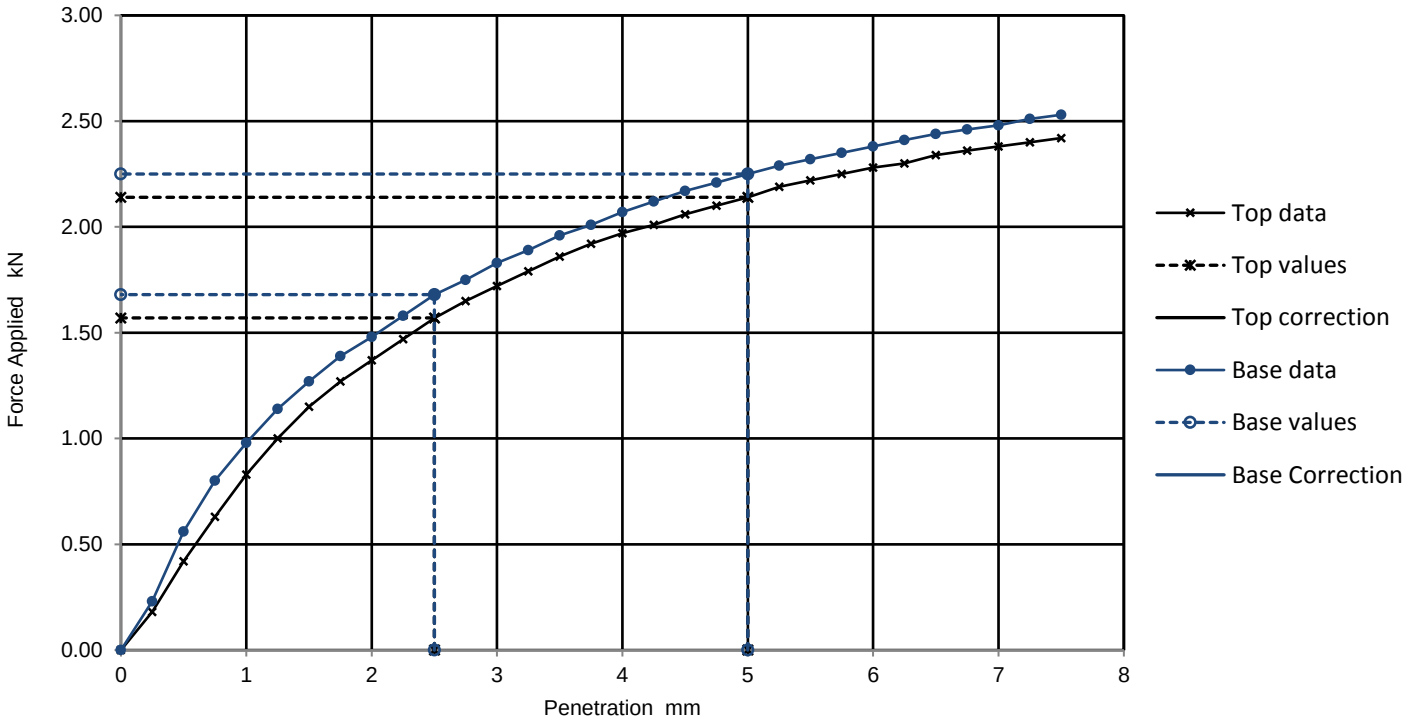
Test Results:

Laboratory Reference:	1059081	Depth Top [m]:	3.80
Hole No.:	TP09	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	2.01	Mg/m3	Surcharge applied	8 kg
	Dry density	1.67	Mg/m3		4.9 kPa
	Moisture content	21	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	12.0	11.0	12.0	12.0	20
BASE	No	13.0	11.0	13.0		22

Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	10/11/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

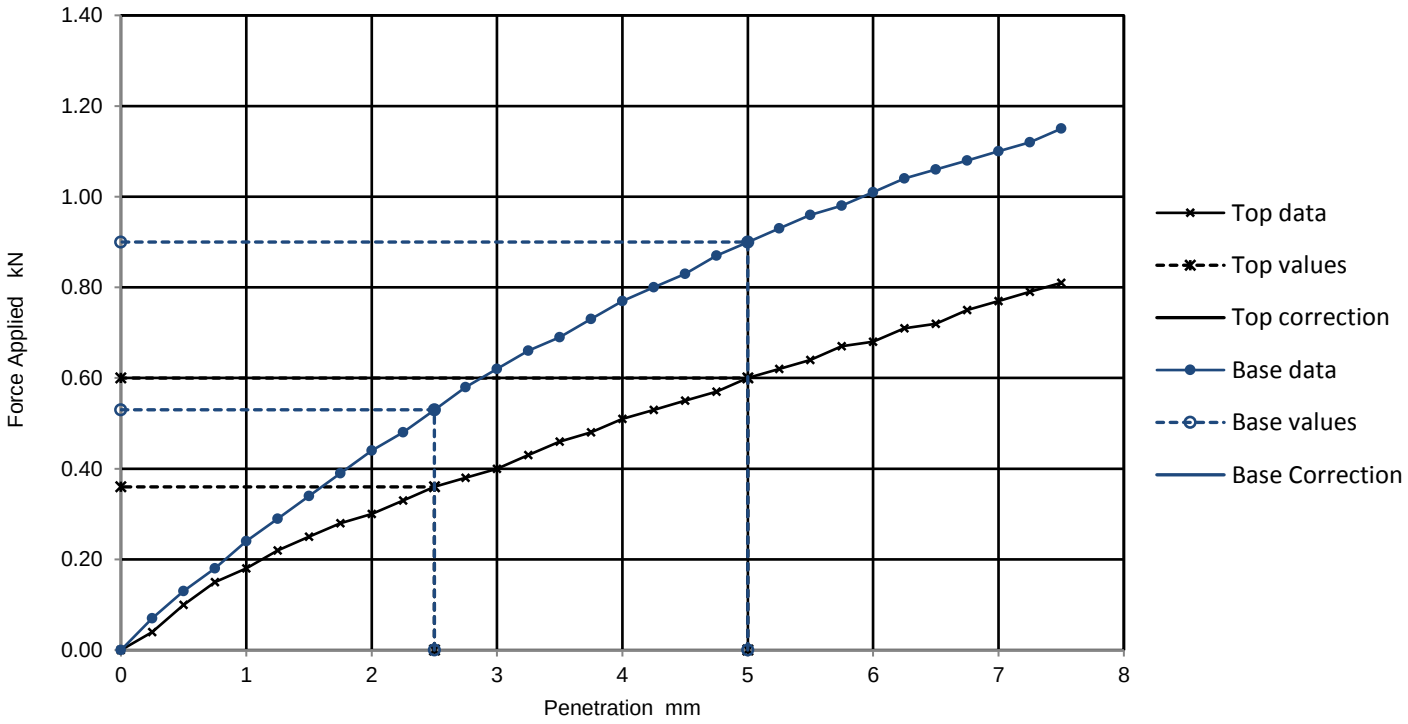
Laboratory Reference:	1059082	Depth Top [m]:	1.80
Hole No.:	TP16	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Red silty clayey SAND		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	1.98	Mg/m3	Surcharge applied	8 kg
	Dry density	1.60	Mg/m3		4.8 kPa
	Moisture content	24	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	2.7	3.0	3.0		25
BASE	No	4.0	4.5	4.5		25

Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

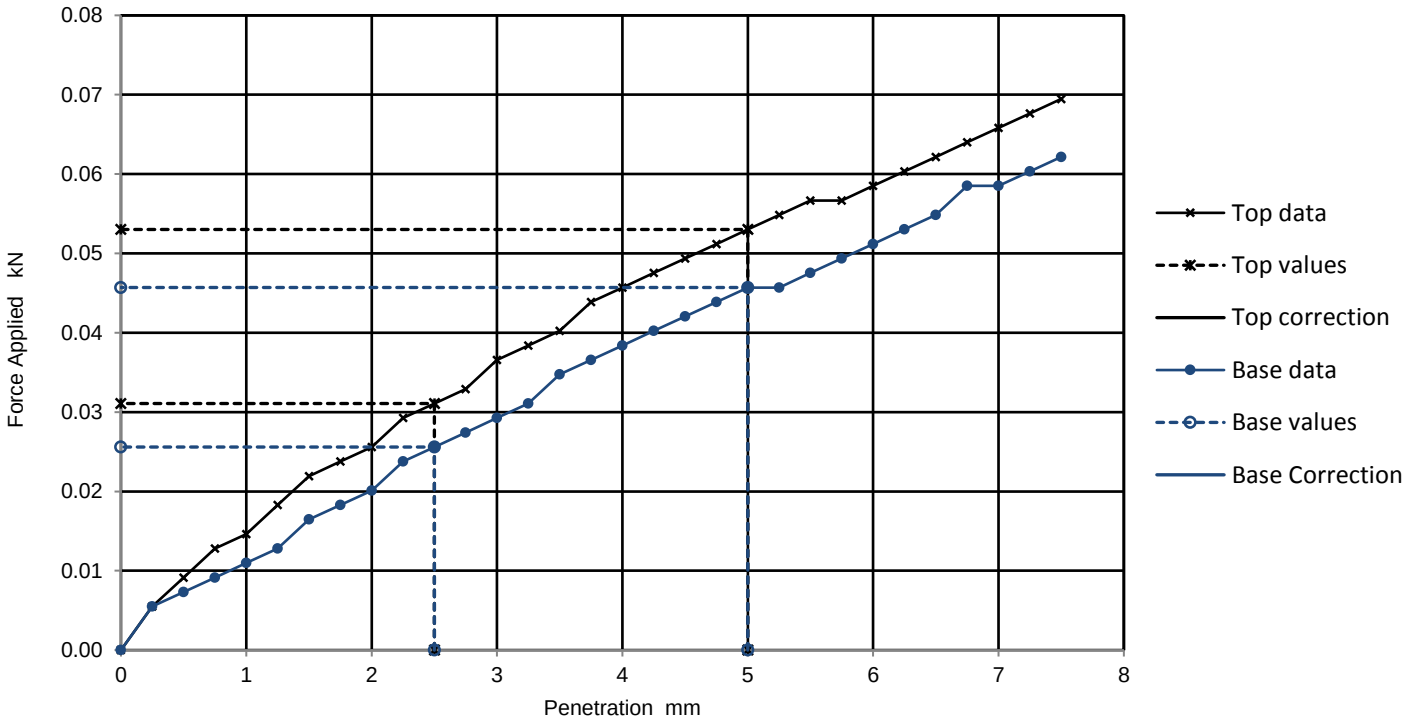
Laboratory Reference:	1059083	Depth Top [m]:	3.60
Hole No.:	TP161	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown silty clayey SAND		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.02	Mg/m3	Surcharge applied	8 kg
	Dry density	1.63	Mg/m3		4.9 kPa
	Moisture content	24	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.2	0.3	0.3	0.3	23
BASE	No	0.2	0.2	0.2		23

Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

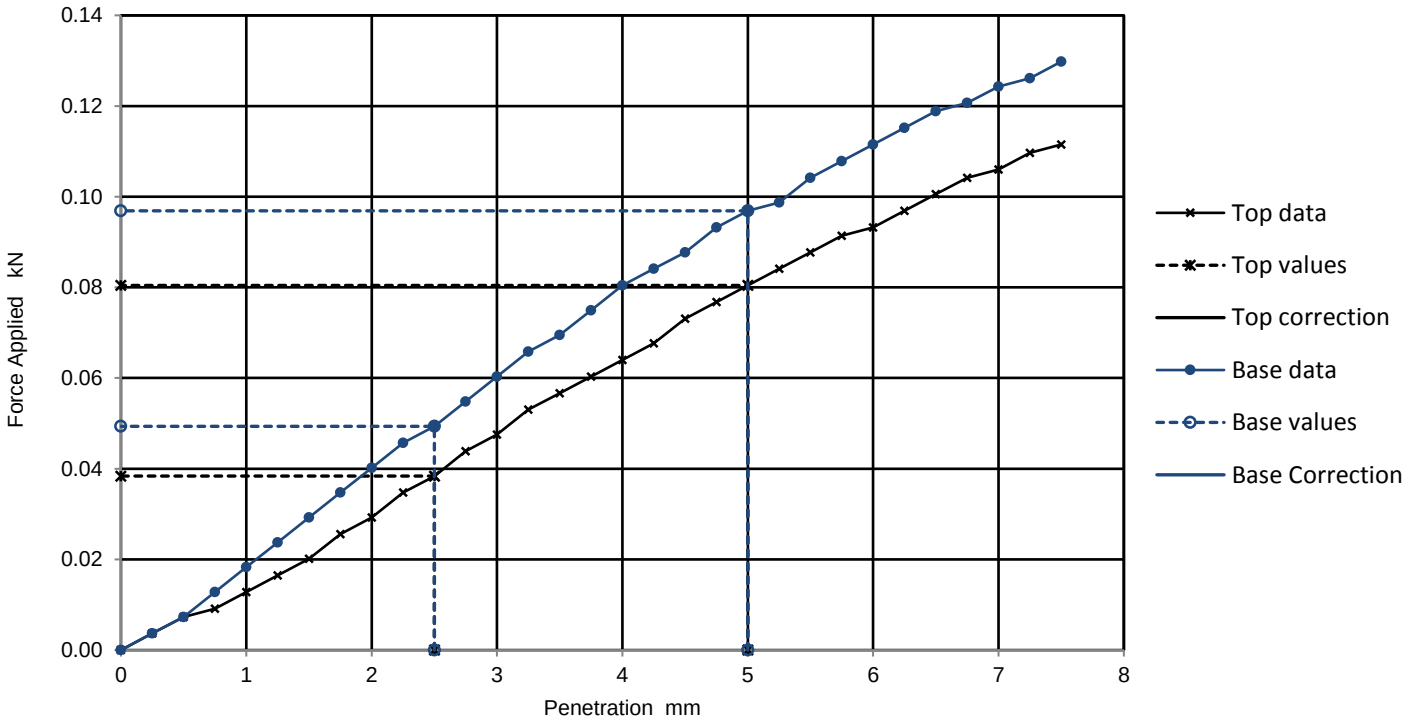
Test Results:

Laboratory Reference:	1059084	Depth Top [m]:	3.00
Hole No.:	TP16	Depth Base [m]:	3.10
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Cream color slightly gravelly clayey SAND		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	7	days
				Time to surface	3.00	days
				Amount of swell recorded	0.00	mm
Material retained on 20mm sieve removed		20	%	Dry density after soaking	1.88	Mg/m3
Initial Specimen details	Bulk density	2.17	Mg/m3	Surcharge applied	8	kg
	Dry density	1.88	Mg/m3		4.9	kPa
	Moisture content	16	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.3	0.4	0.4	0.4	15
BASE	No	0.4	0.5	0.5		14

Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 108.10

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TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	21/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

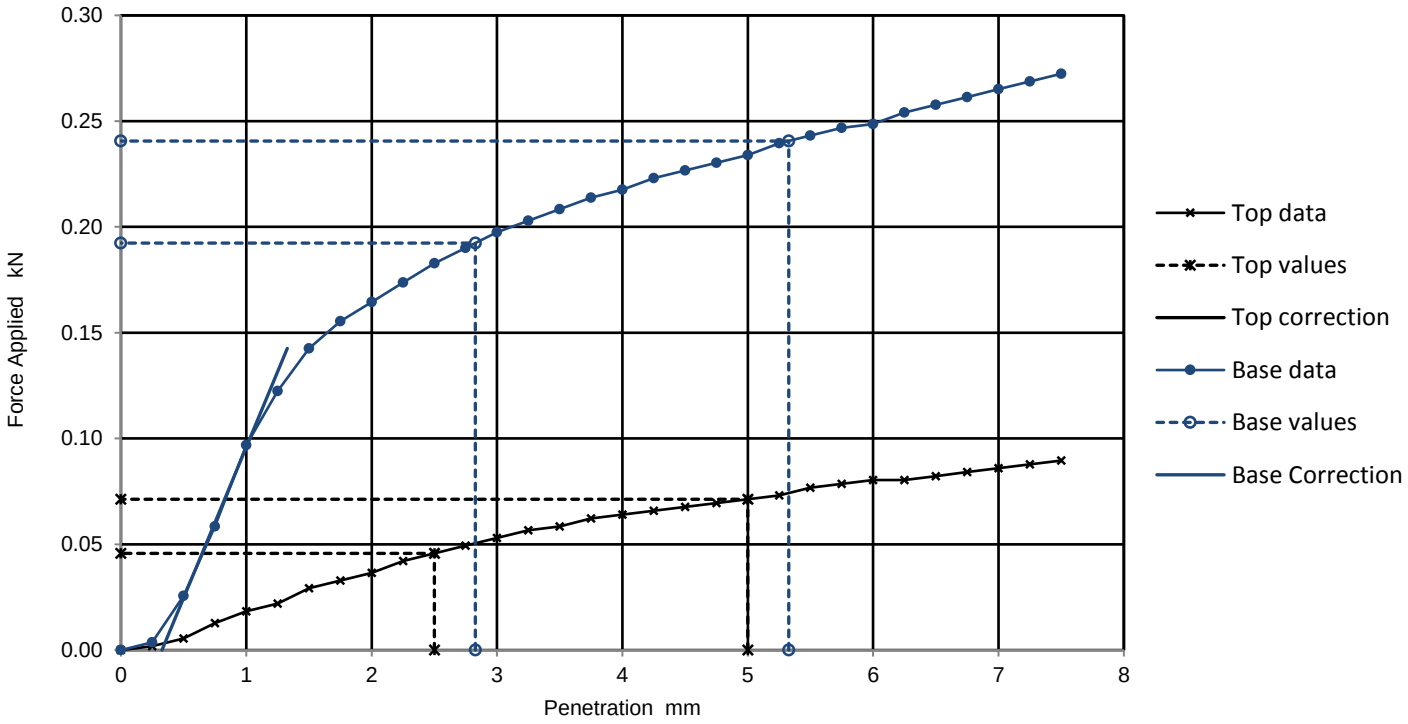
Test Results:

Laboratory Reference:	1059085	Depth Top [m]:	1.00
Hole No.:	TP05	Depth Base [m]:	1.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly sandy CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	12	days
				Time to surface	3.00	days
				Amount of swell recorded	6.29	mm
Material retained on 20mm sieve removed		8	%	Dry density after soaking	1.6	Mg/m3
Initial Specimen details	Bulk density	1.89	Mg/m3	Surcharge applied	8	kg
	Dry density	1.68	Mg/m3		4.9	kPa
	Moisture content	13	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.4	0.4	0.4		24
BASE	Yes	1.5	1.2	1.5		20

Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

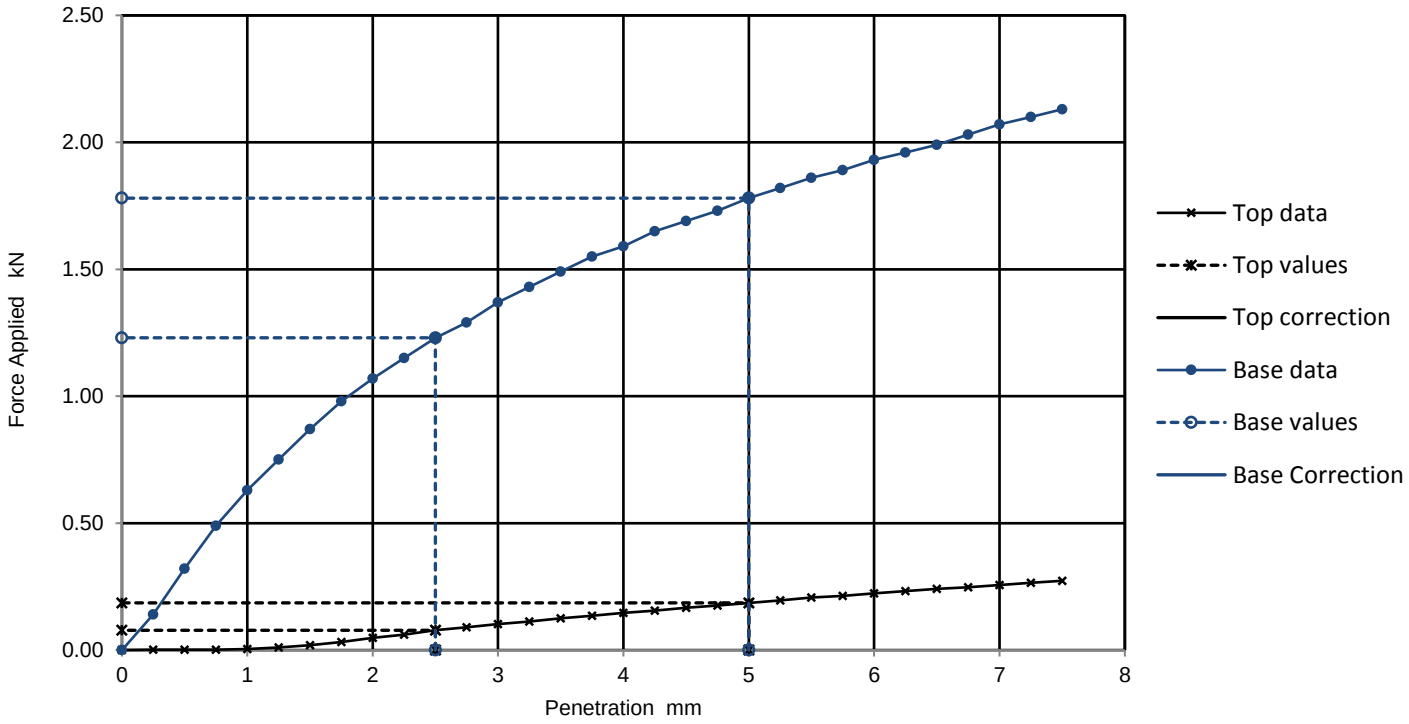
Test Results:

Laboratory Reference:	1059086	Depth Top [m]:	2.00
Hole No.:	TP10	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown mottled grey slightly gravelly very sandy CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	12	days
				Time to surface	3.00	days
				Amount of swell recorded	2.18	mm
Material retained on 20mm sieve removed		4	%	Dry density after soaking	1.92	Mg/m3
Initial Specimen details	Bulk density	2.19	Mg/m3	Surcharge applied	8	kg
	Dry density	1.95	Mg/m3		4.9	kPa
	Moisture content	12	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.6	0.9	0.9		16
BASE	No	9.3	8.9	9.3		13

Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

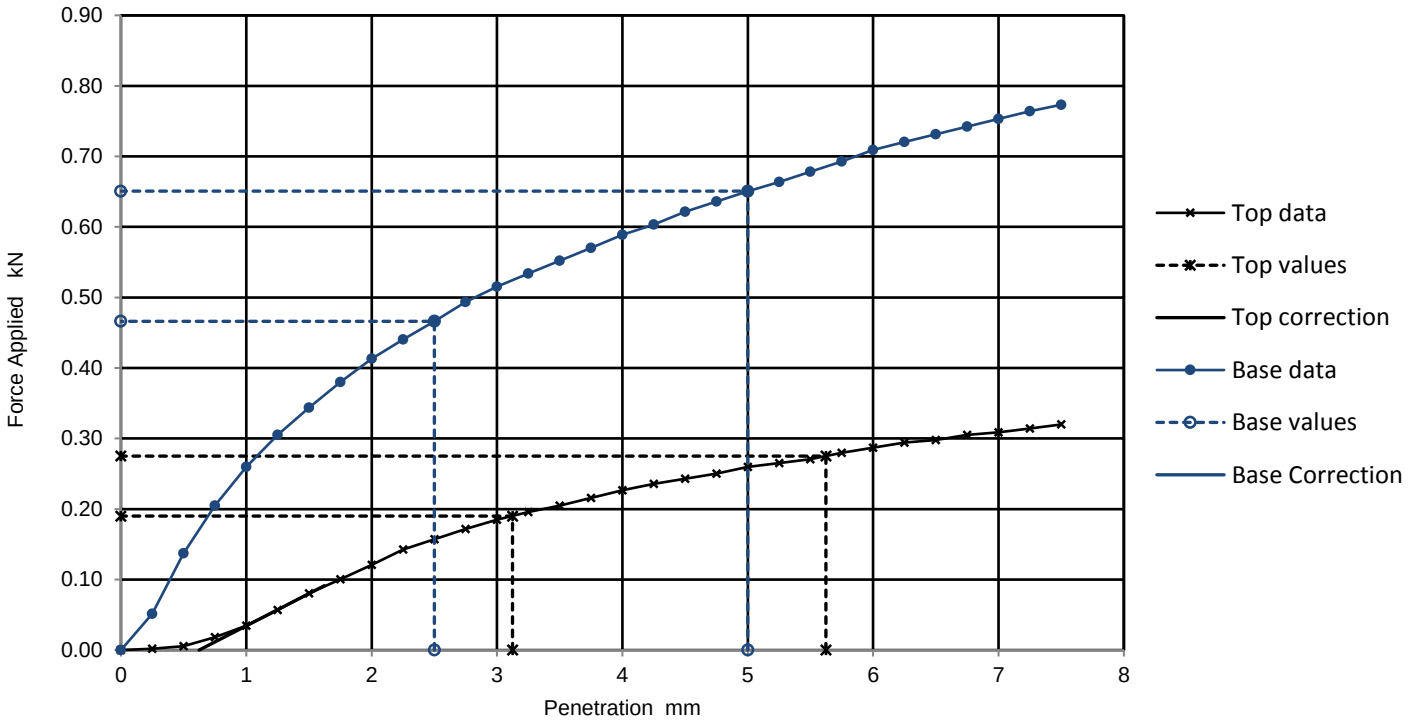
Test Results:

Laboratory Reference:	1059087	Depth Top [m]:	2.00
Hole No.:	TP21	Depth Base [m]:	2.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown mottled grey slightly gravelly sandy CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	20	days
				Time to surface	3.00	days
				Amount of swell recorded	6.19	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.69	Mg/m3
Initial Specimen details	Bulk density	2.06	Mg/m3	Surcharge applied	8	kg
	Dry density	1.77	Mg/m3		4.8	kPa
	Moisture content	16	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	1.4	1.4	1.4		22
BASE	No	3.5	3.3	3.5		19

Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Determination of California Bearing Ratio

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING 4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

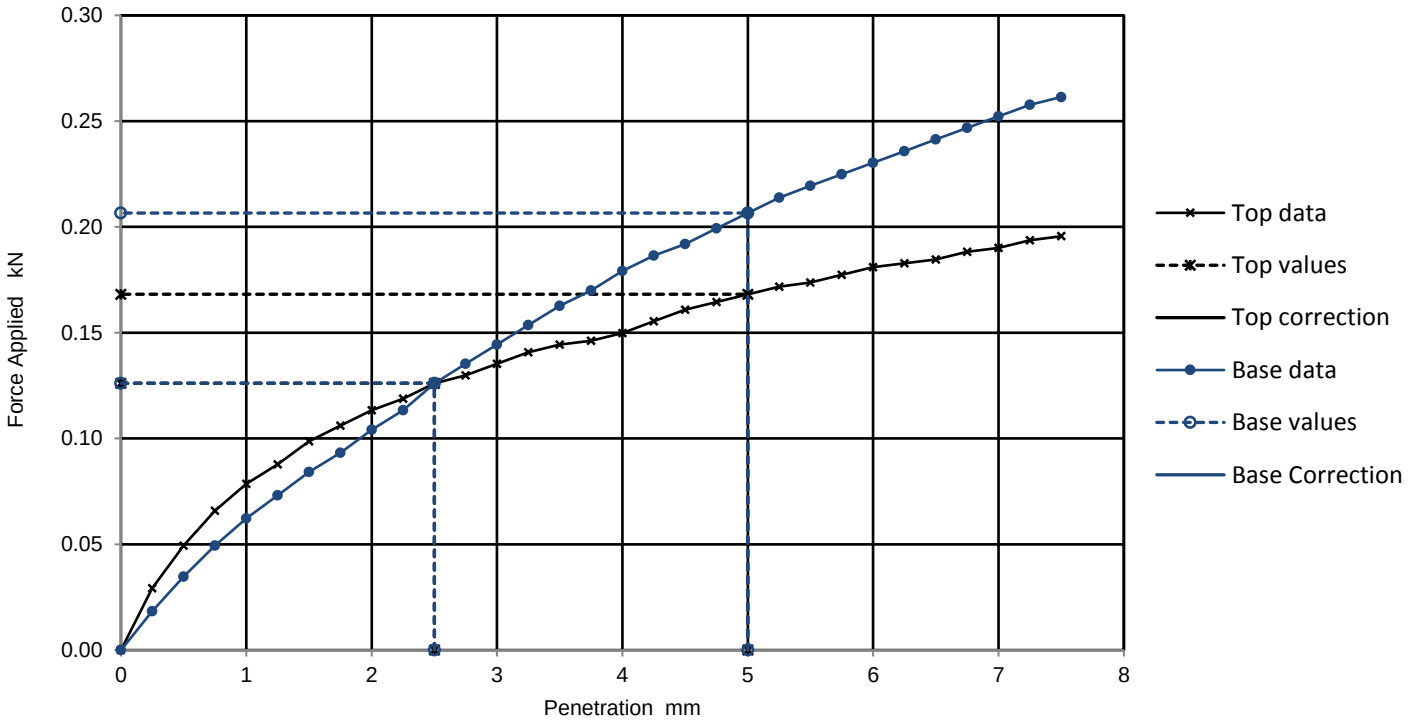
Test Results:

Laboratory Reference:	1059088	Depth Top [m]:	1.50
Hole No.:	TP12	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	7	days
				Time to surface	3.00	days
				Amount of swell recorded	7.92	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.41	Mg/m3
Initial Specimen details	Bulk density	1.76	Mg/m3	Surcharge applied	8	kg
	Dry density	1.49	Mg/m3		4.9	kPa
	Moisture content	18	%			

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	1.0	0.8	1.0	1.0	31
BASE	No	1.0	1.0	1.0		29

Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 108.10

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

California Bearing Ratio Soaked Graph

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

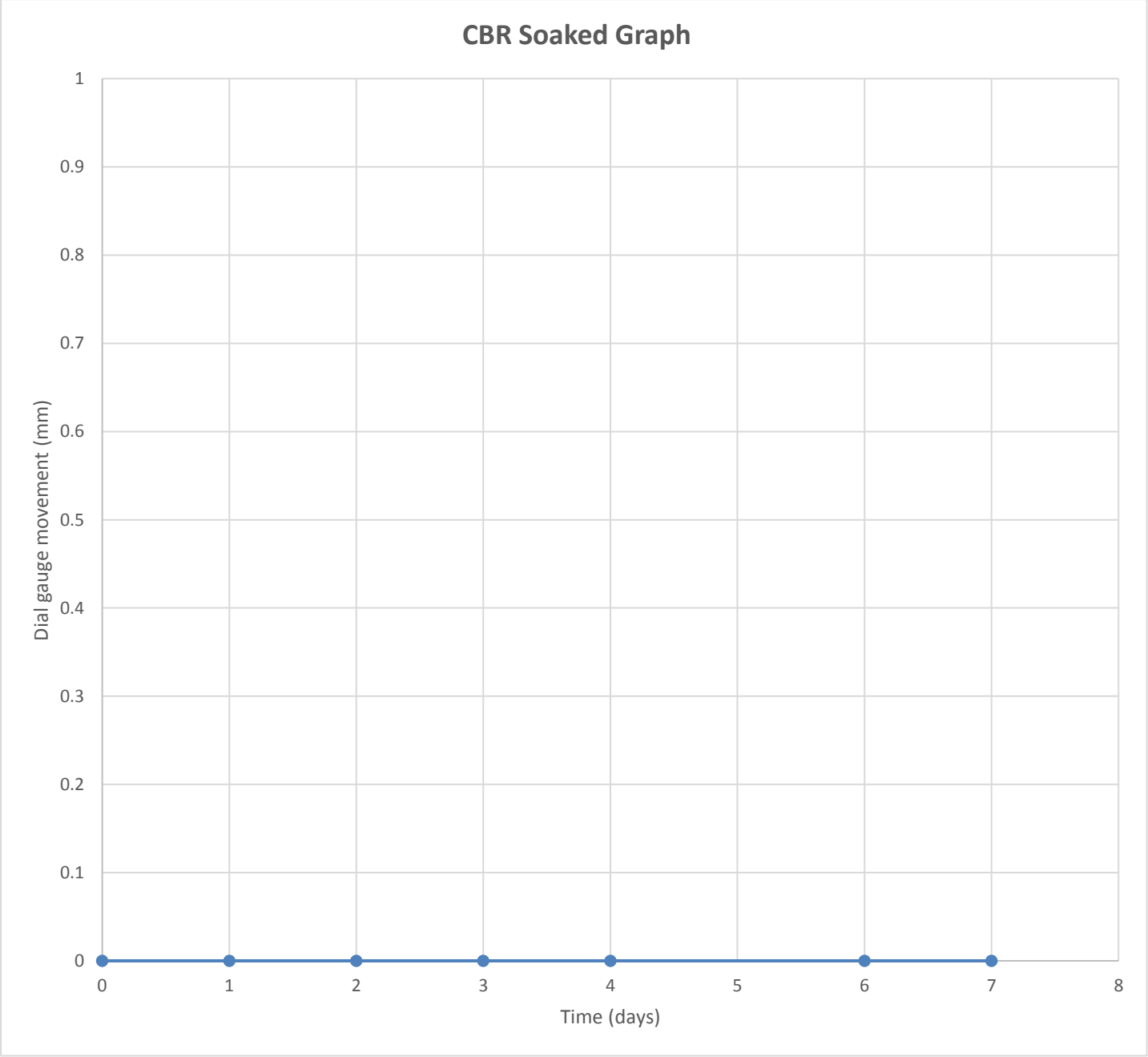
4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059084	Depth Top [m]:	3.00
Hole No.:	TP16	Depth Base [m]:	3.10
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Cream color slightly gravelly clayey SAND		



Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 151.5

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

California Bearing Ratio Soaked Graph

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

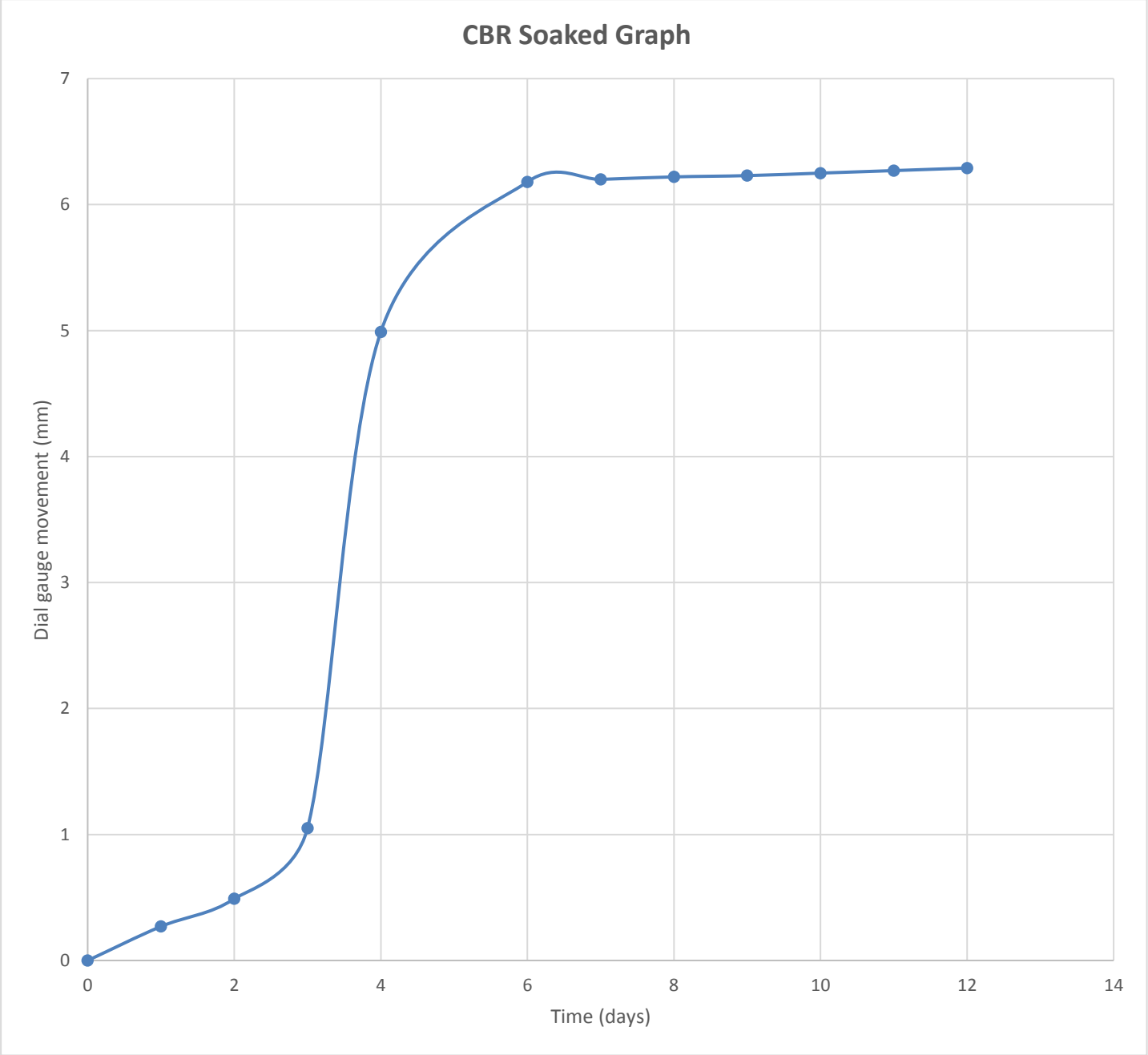
4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	21/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059085	Depth Top [m]:	1.00
Hole No.:	TP05	Depth Base [m]:	1.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly sandy CLAY		



Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 151.5

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

California Bearing Ratio Soaked Graph

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

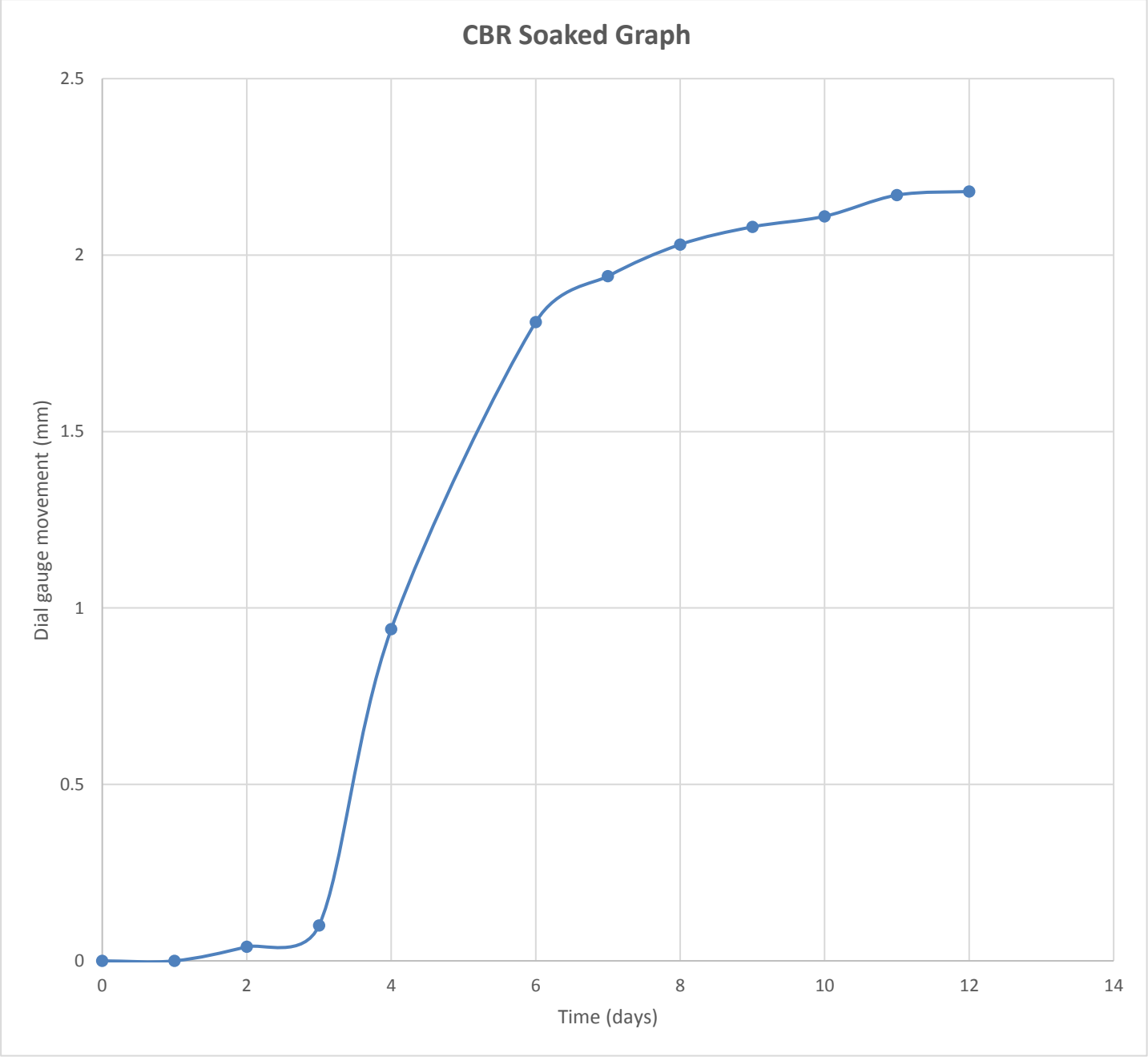
4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059086	Depth Top [m]:	2.00
Hole No.:	TP10	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown mottled grey slightly gravelly very sandy CLAY		



Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 151.5

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

California Bearing Ratio Soaked Graph

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

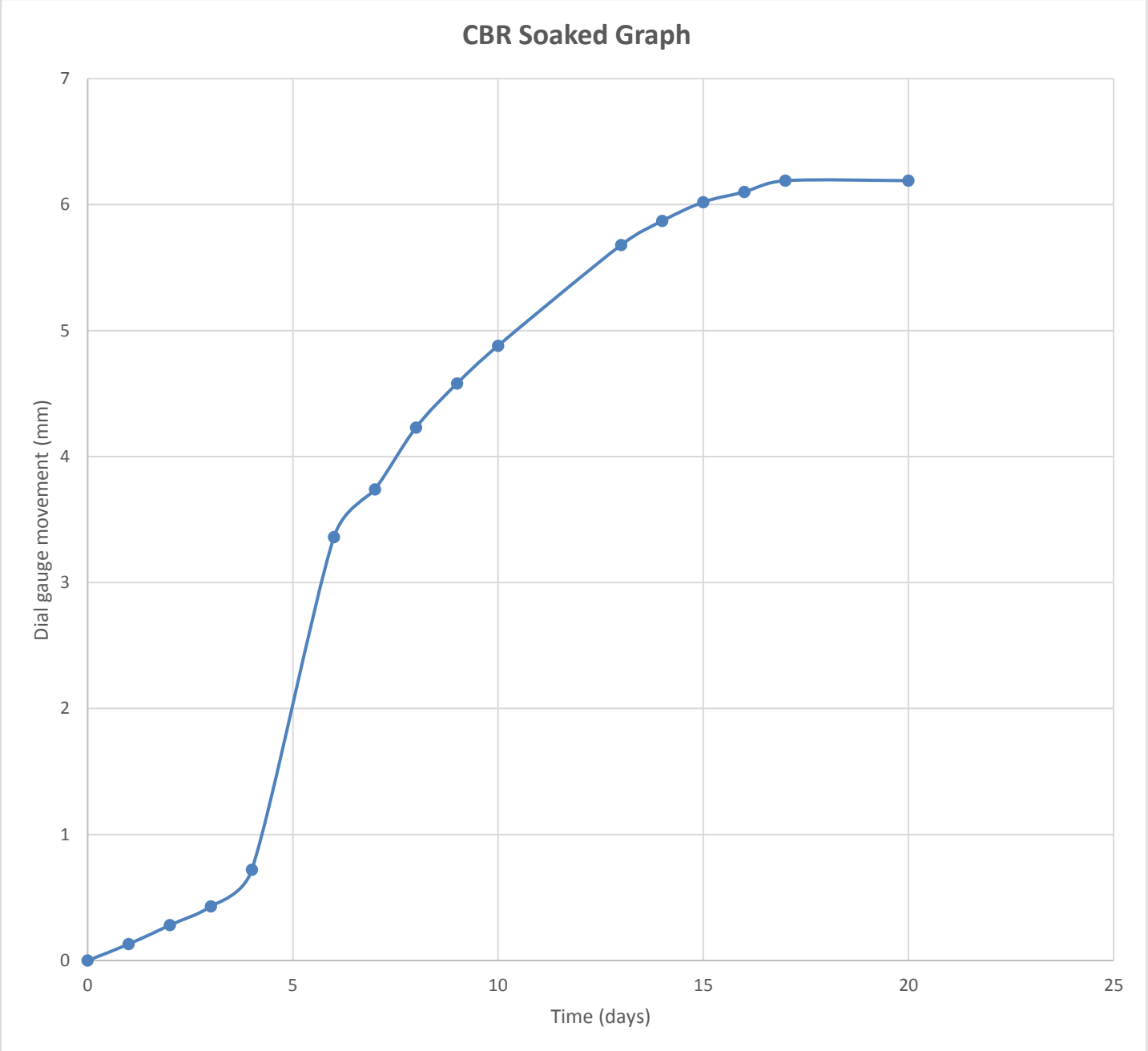
4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059087	Depth Top [m]:	2.00
Hole No.:	TP21	Depth Base [m]:	2.30
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown mottled grey slightly gravelly sandy CLAY		



Remarks:

Test/ Specimen specific remarks:

Approved: [redacted]
Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: [redacted]
Darren Berrill
Geotechnical General Manager

GF 151.5

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

California Bearing Ratio Soaked Graph

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

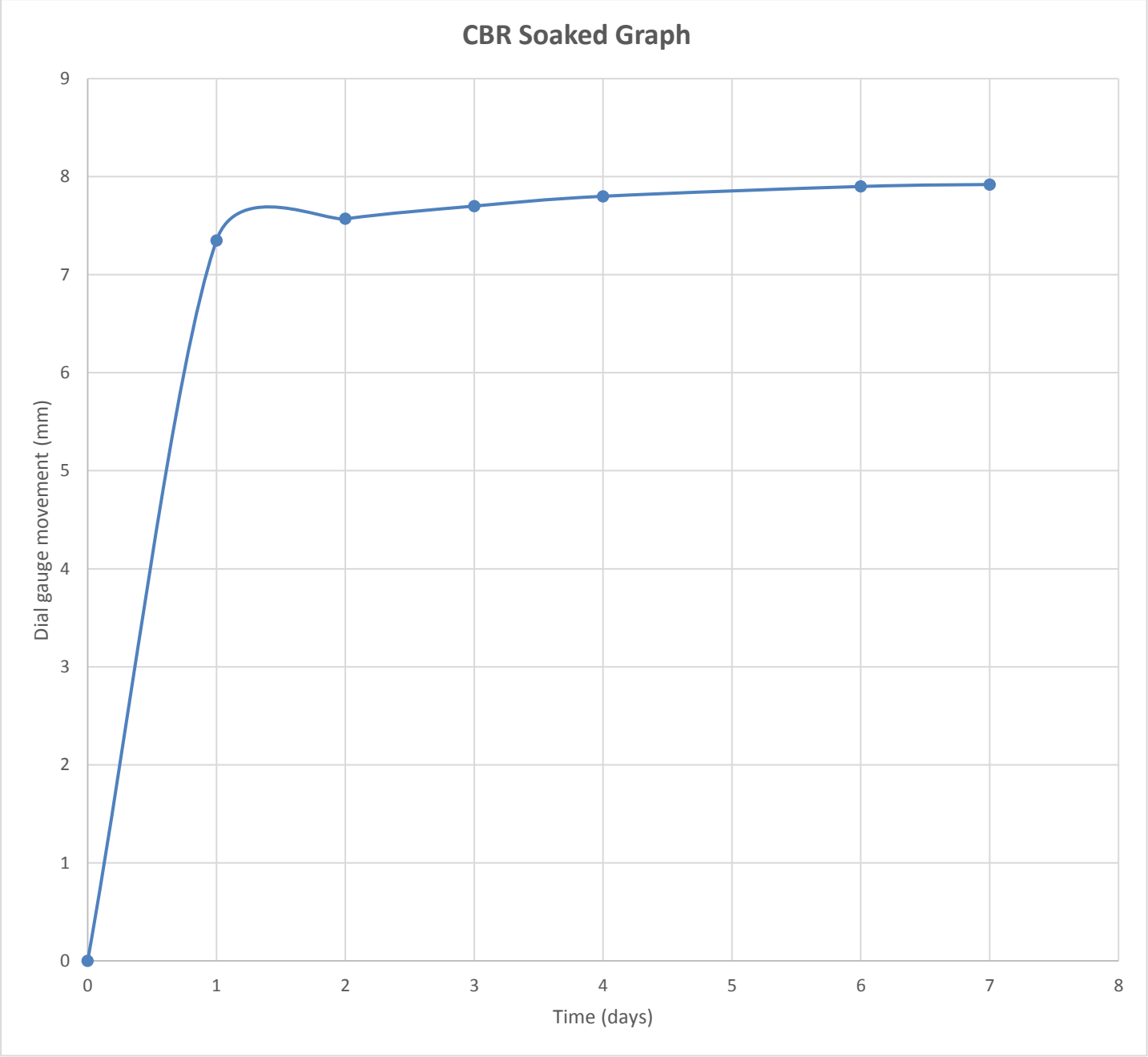
4041

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton, Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	09/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059088	Depth Top [m]:	1.50
Hole No.:	TP12	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brownish grey slightly gravelly CLAY		



Remarks:

Test/ Specimen specific remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 151.5

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

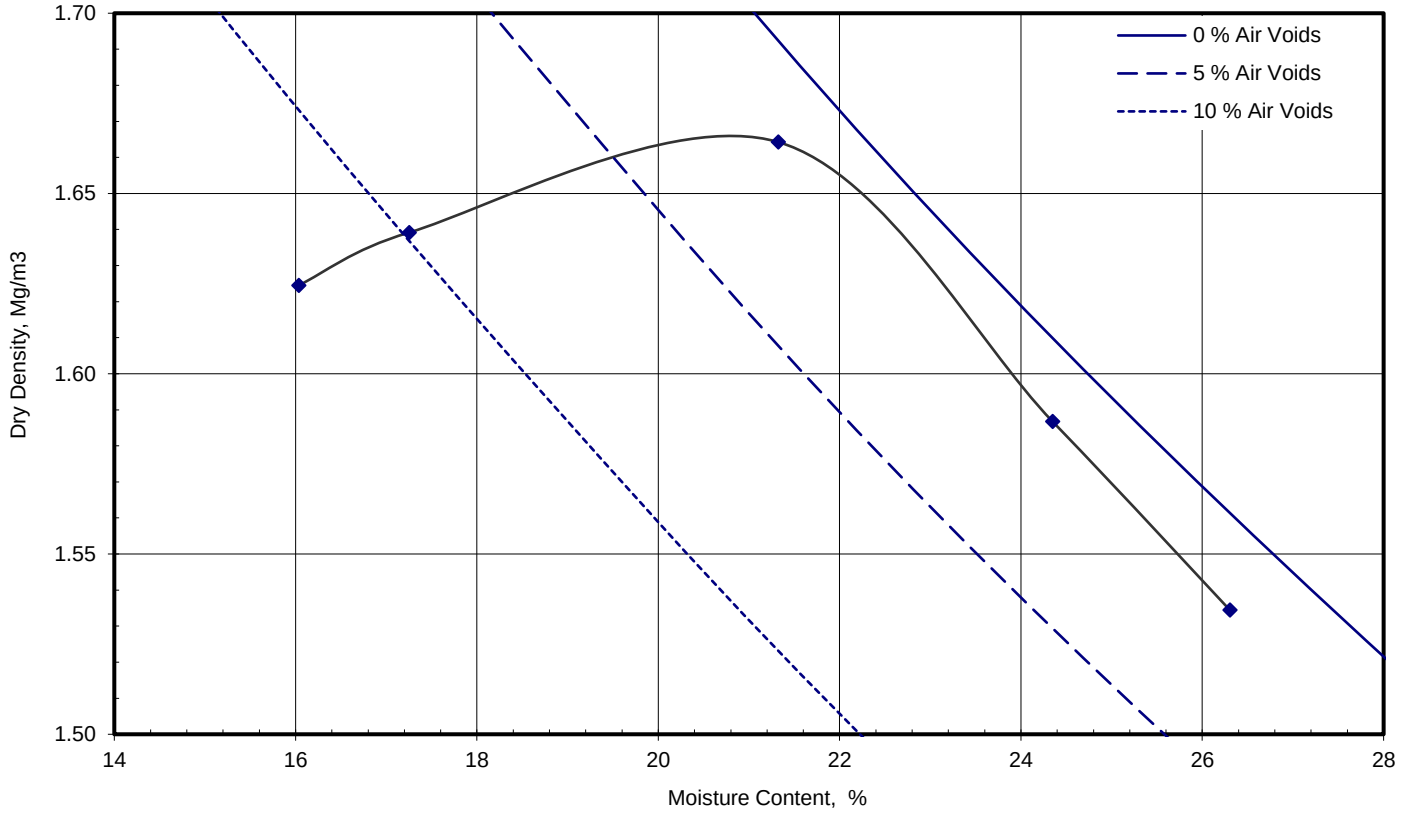
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059079	Depth Top [m]:	2.00
Hole No.:	TP09	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey mottled brown slightly sandy silty CLAY		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.65	Mg/m³
As received Moisture Content	17	%
Maximum Dry Density	1.66	Mg/m³
Optimum Moisture Content	21	%

Note: Tested in Accordance with: BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 109.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

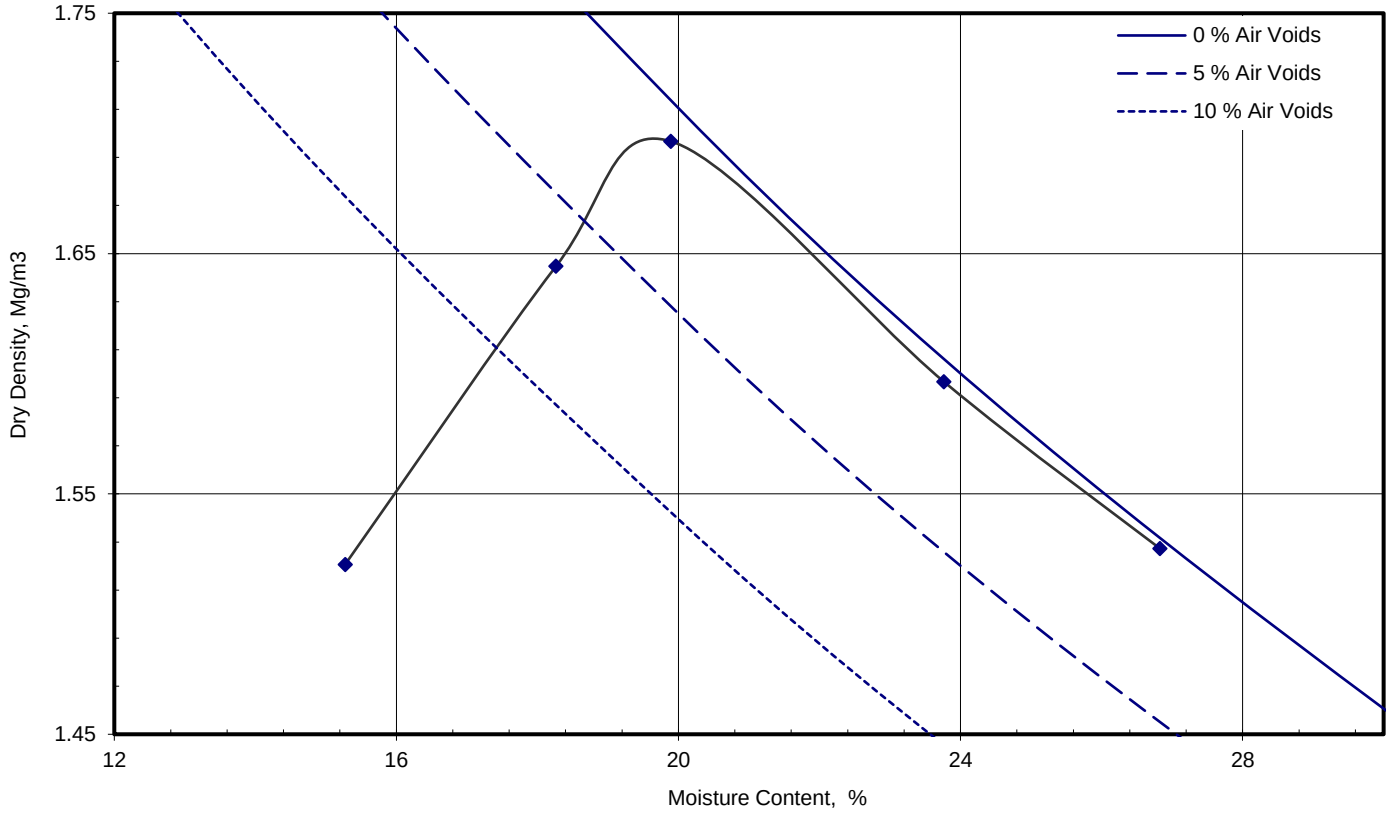
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059080	Depth Top [m]:	1.80
Hole No.:	TP14	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.60	Mg/m³
As received Moisture Content	20	%
Maximum Dry Density	1.70	Mg/m³
Optimum Moisture Content	20	%

Note: Tested in Accordance with: BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 109.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

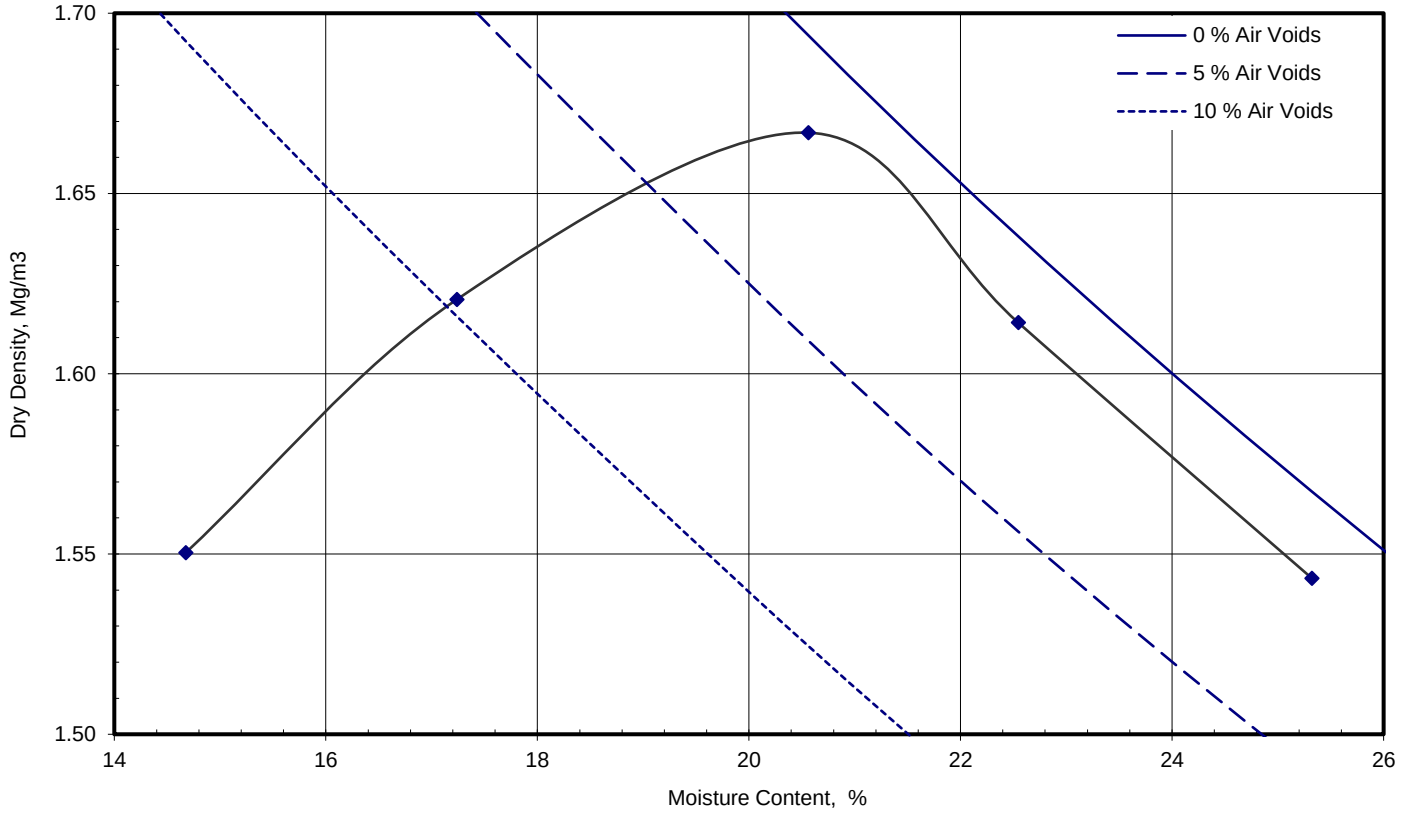
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059081	Depth Top [m]:	3.80
Hole No.:	TP09	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.60	Mg/m³
As received Moisture Content	21	%
Maximum Dry Density	1.67	Mg/m³
Optimum Moisture Content	21	%

Note: Tested in Accordance with: BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 109.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

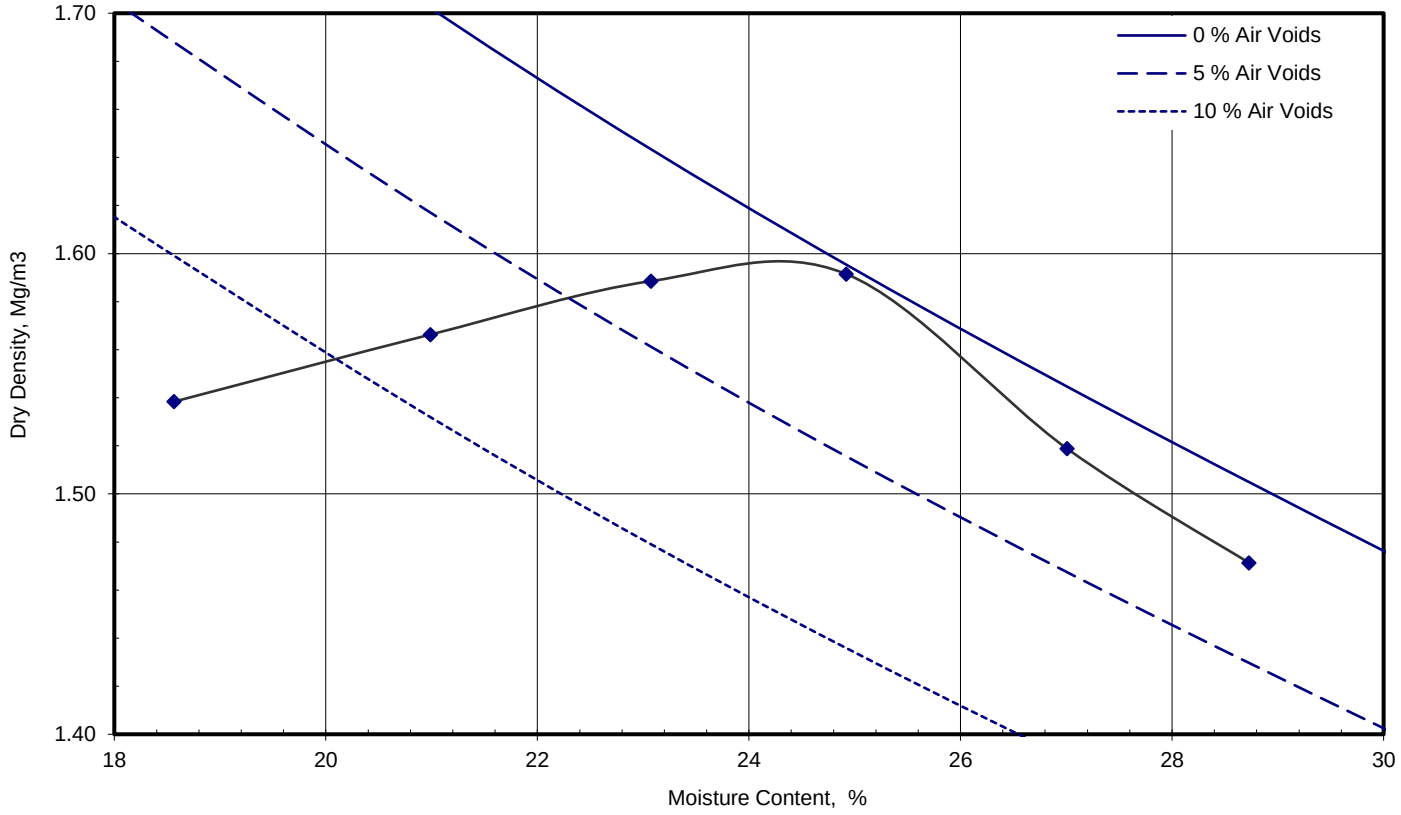
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

UKAS TESTING
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059082	Depth Top [m]:	1.80
Hole No.:	TP16	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Red silty clayey SAND		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.65	Mg/m³
As received Moisture Content	25	%
Maximum Dry Density	1.60	Mg/m³
Optimum Moisture Content	24	%

Note: Tested in Accordance with: BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 109.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Light Compaction

Tested in Accordance with:
BS 1377-4: 1990

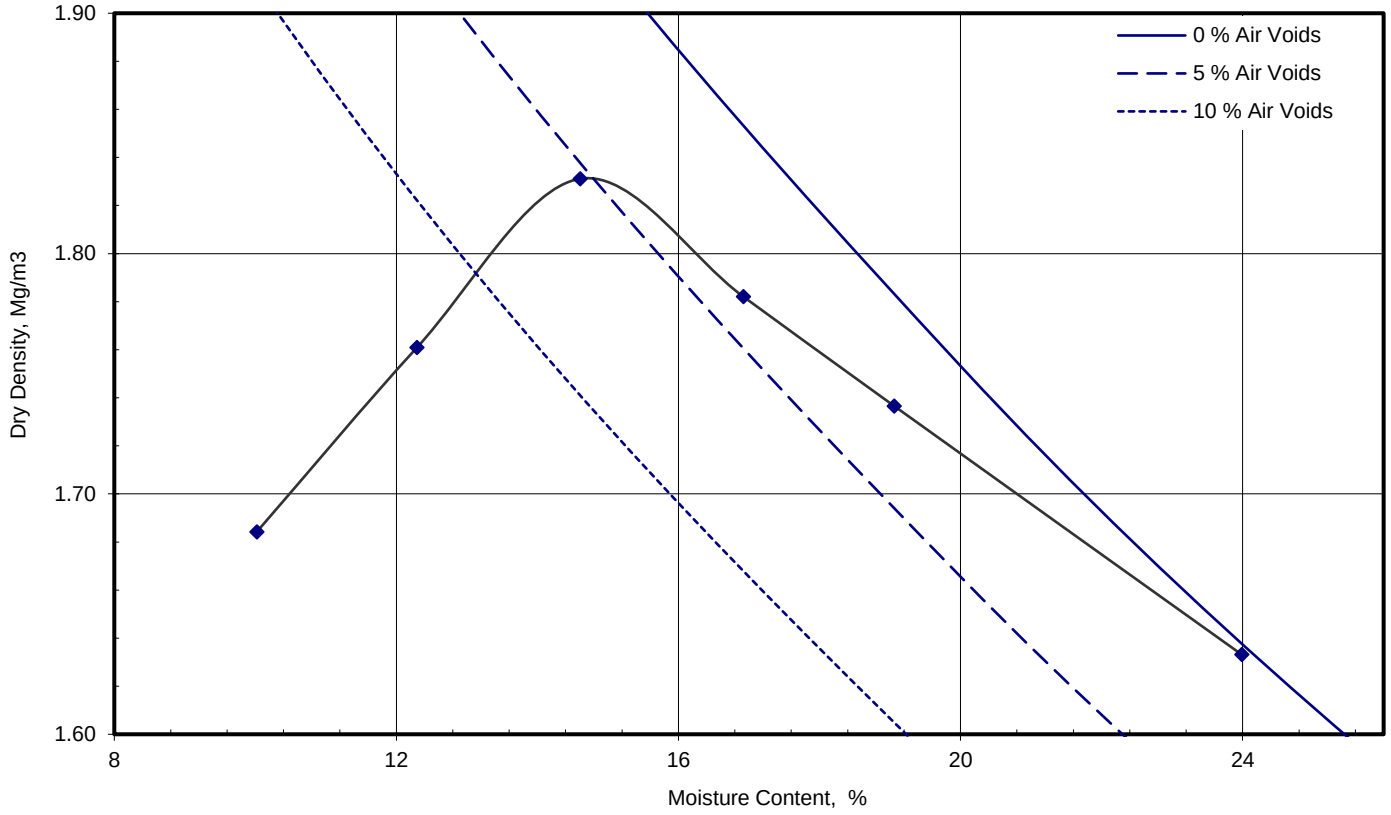
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire, NN6 8LD	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059083	Depth Top [m]:	3.60
Hole No.:	TP161	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown silty clayey SAND		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.70	Mg/m³
As received Moisture Content	24	%
Maximum Dry Density	1.83	Mg/m³
Optimum Moisture Content	15	%

Note: Tested in Accordance with: BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 109.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Heavy Compaction

Tested in Accordance with:
BS 1377-4: 1990

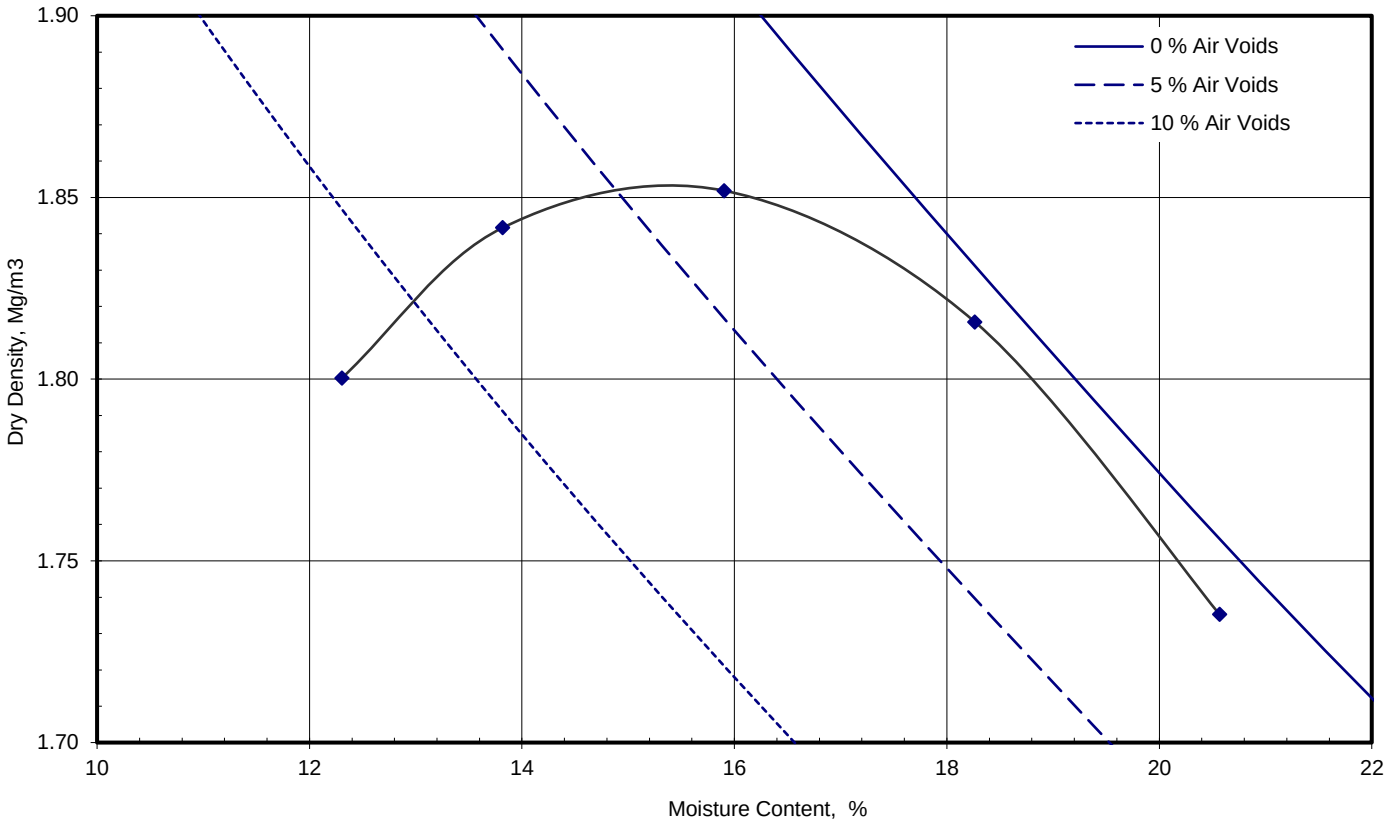
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059079	Depth Top [m]:	2.00
Hole No.:	TP09	Depth Base [m]:	2.20
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Grey mottled brown slightly sandy silty CLAY		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.75	Mg/m³
As received Moisture Content	18	%
Maximum Dry Density	**1.85**	Mg/m³
Optimum Moisture Content	**16**	%

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 110.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Heavy Compaction

Tested in Accordance with:
BS 1377-4: 1990

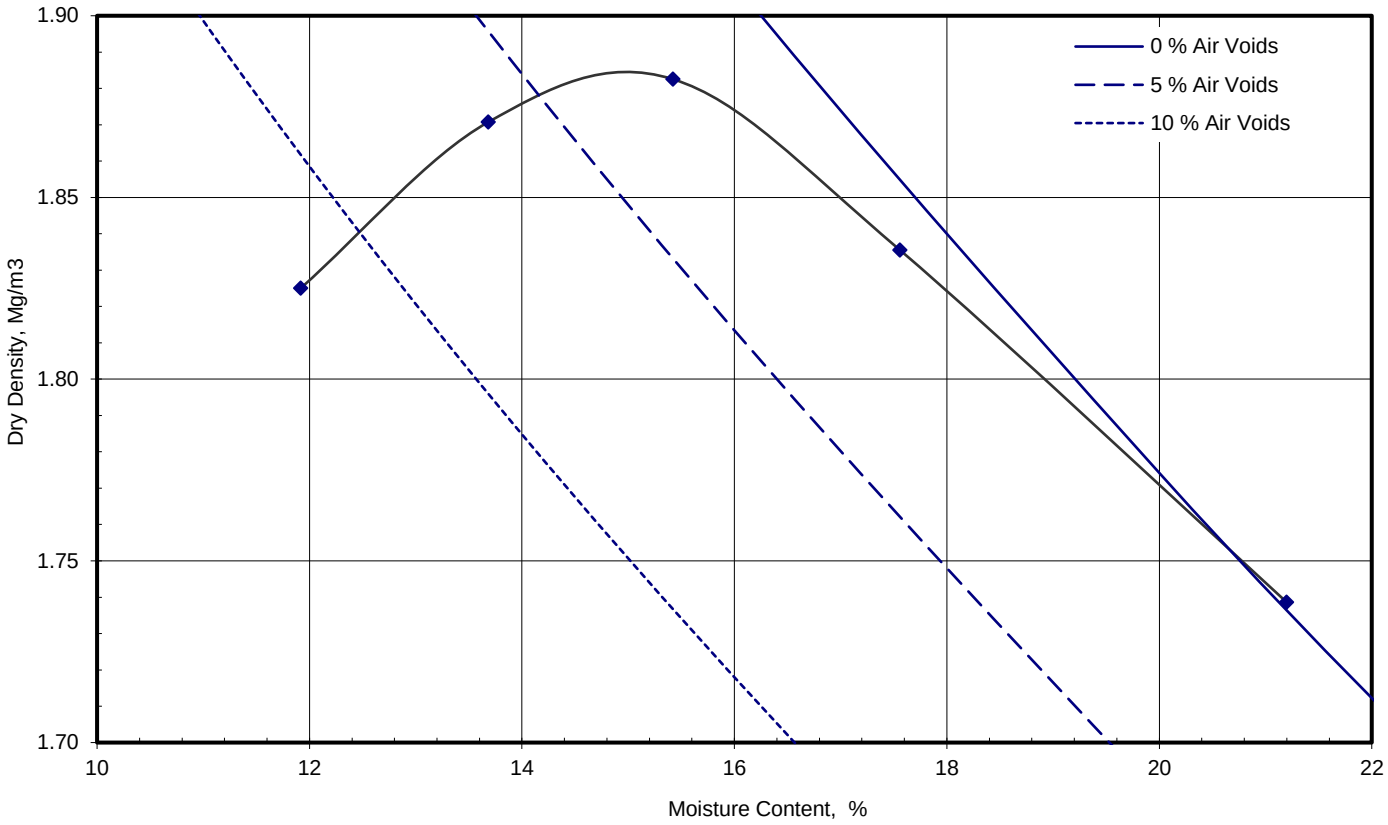
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059080	Depth Top [m]:	1.80
Hole No.:	TP14	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.75	Mg/m³
As received Moisture Content	21	%
Maximum Dry Density	**1.88**	Mg/m³
Optimum Moisture Content	**15**	%

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 110.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Heavy Compaction

Tested in Accordance with:
BS 1377-4: 1990

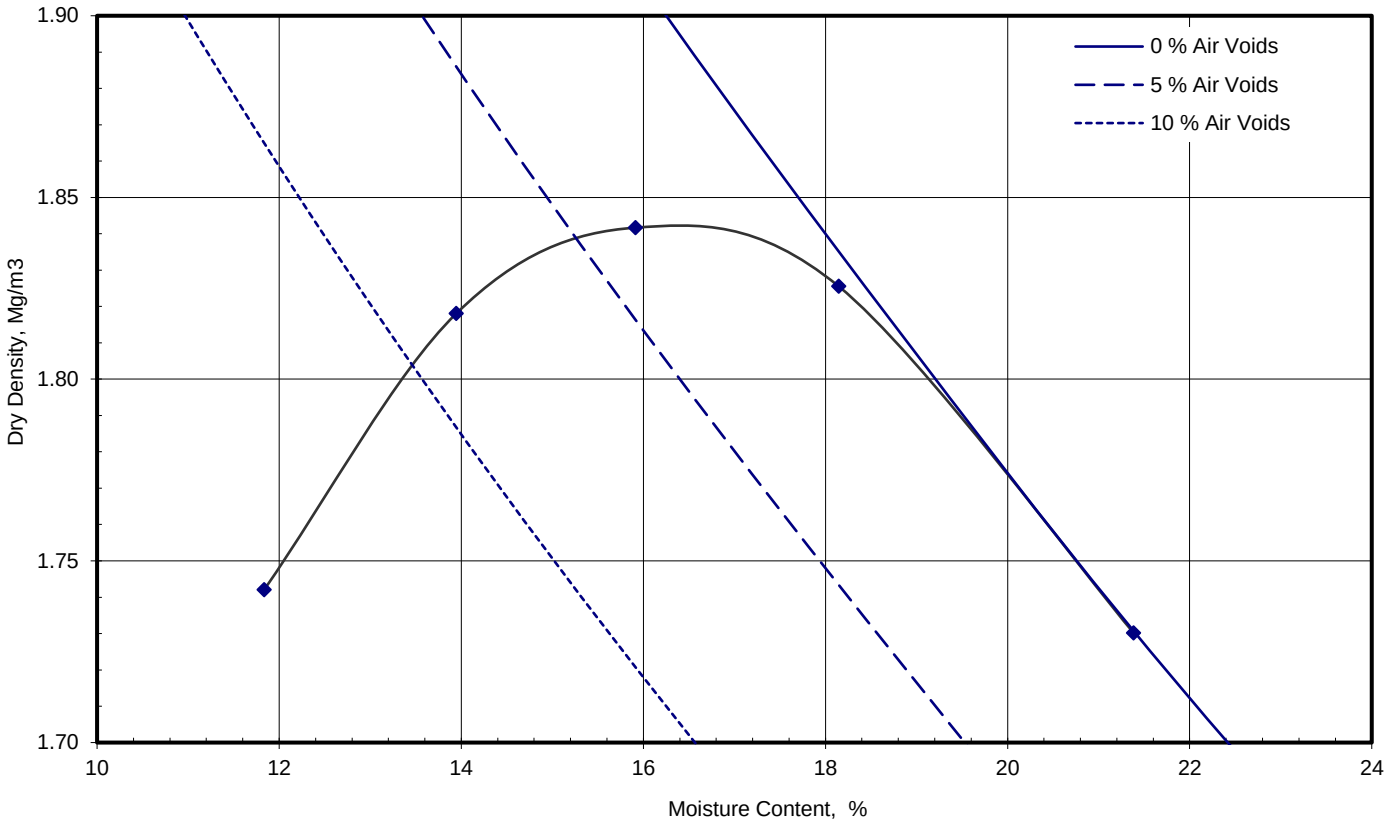
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059081	Depth Top [m]:	3.80
Hole No.:	TP09	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Brown silty slightly sandy CLAY		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.75	Mg/m³
As received Moisture Content	21	%
Maximum Dry Density	**1.84**	Mg/m³
Optimum Moisture Content	**16**	%

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 110.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Heavy Compaction

Tested in Accordance with:
BS 1377-4: 1990

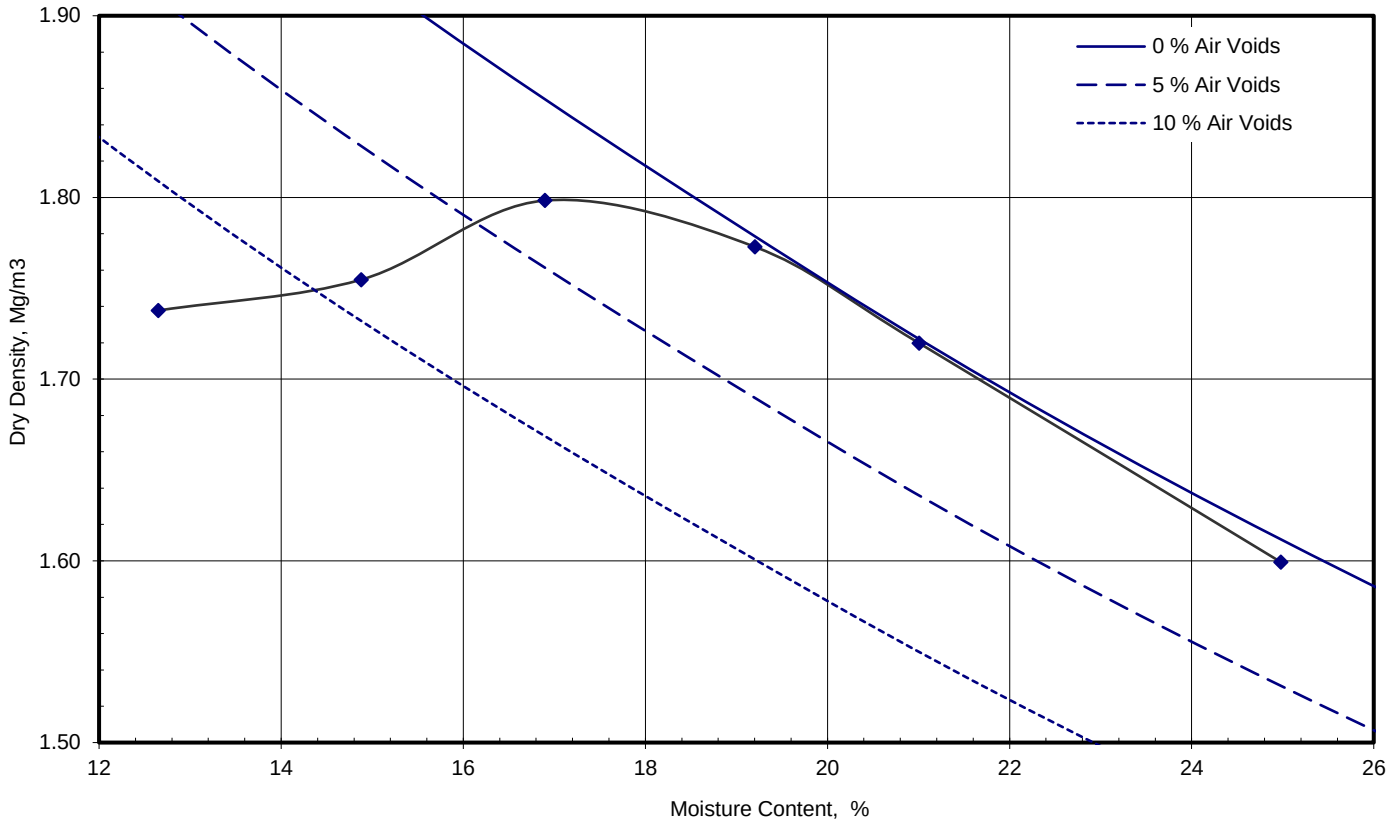
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059082	Depth Top [m]:	1.80
Hole No.:	TP16	Depth Base [m]:	2.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Red silty clayey SAND		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.70	Mg/m³
As received Moisture Content	25	%
Maximum Dry Density	**1.80**	Mg/m³
Optimum Moisture Content	**17**	%

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 110.11

for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

Dry Density / Moisture Content

Relationship Heavy Compaction

Tested in Accordance with:
BS 1377-4: 1990

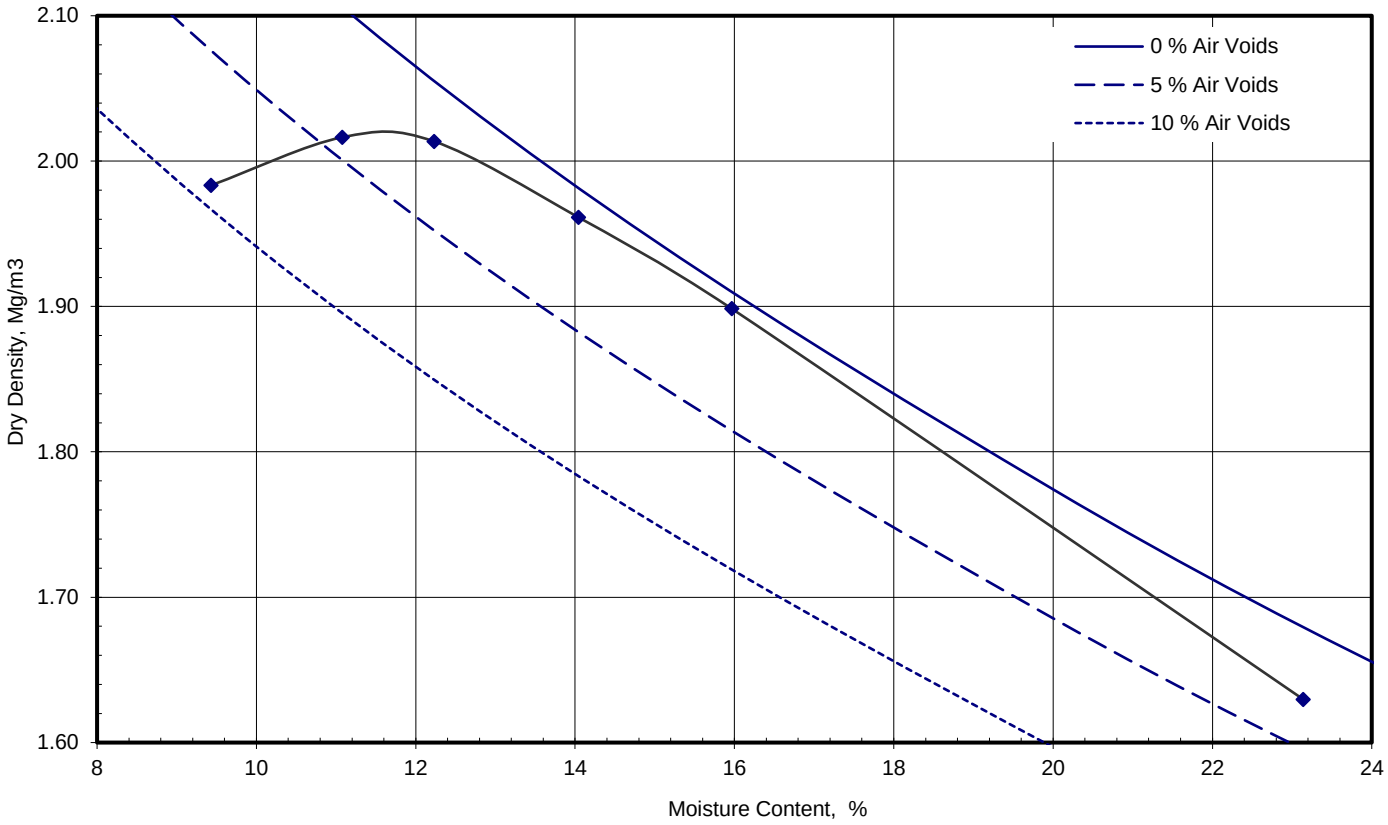
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-07700-C
Client Address:	2-4 Hawthorne Park Holdenby Road Spratton Northamptonshire	Job Number:	18-12741
		Date Sampled:	20/08/2018
		Date Received:	29/08/2018
Contact:	Julian Charlesworth	Date Tested:	11/10/2018
Site Name:	Hinckley NRFI	Sampled By:	Not Given
Site Address:	Not Given		

Test Results:

Laboratory Reference:	1059083	Depth Top [m]:	3.60
Hole No.:	TP161	Depth Base [m]:	4.00
Sample Reference:	Not Given	Sample Type:	B
Sample Description:	Reddish brown silty clayey SAND		



Preparation	Material used was natural	
Mould Type	1 Litre	
Samples Used	Composite specimens tested	
Material Retained on 37.5 mm Sieve	0	%
Material Retained on 20.0 mm Sieve	0	%
Particle Density - Assumed	2.75	Mg/m³
As received Moisture Content	23	%
Maximum Dry Density	**2.02**	Mg/m³
Optimum Moisture Content	**12**	%

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.5 using 4.5kg [heavy] Rammer

Remarks:

Approved: Dariusz Piotrowski
PL Geotechnical Laboratory Manager
Date Reported: 30/10/2018

Signed: Darren Berrill
Geotechnical General Manager

GF 110.11

for and on behalf of i2 Analytical Ltd

Julian Charlesworth
Hydrock Consultants Ltd
2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire
NN6 8LD

t: 01604842888
f: 01604842666
e: [redacted]hydrock.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 18-12745

Project / Site name:	Hinckley NRFI	**Samples received on:**	29/08/2018
Your job number:	C-07700-C	**Samples instructed on:**	03/10/2018
Your order number:	POP023809	**Analysis completed by:**	15/10/2018
Report Issue Number:	1	**Report issued on:**	15/10/2018
Samples Analysed:	16 soil samples		

Signed [redacted]

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 18-12745

Project / Site name: Hinckley NRFI
Your Order No: POP023809

Lab Sample Number				1059154	1059155	1059156	1059157	1059158
Sample Reference				TP09	TP14	TP09	TP16	TP16
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00-2.20	1.80-2.00	3.80-4.00	1.80-2.00	3.60-4.00
Date Sampled				20/08/2018	20/08/2018	20/08/2018	20/08/2018	20/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	12	14	15	21	17
Total mass of sample received	kg	0.001	NONE	0.38	0.38	0.39	0.34	0.43
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.2	8.3	8.2	8.3	8.6
Total Sulphate as SO_4	mg/kg	50	MCERTS	640	530	1100	680	600
Total Sulphate as SO_4	%	0.005	MCERTS	0.064	0.053	0.114	0.068	0.060
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.21	0.036	0.49	0.018	0.015
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	207	36.0	491	18.1	14.6
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	40	12	19	13	15
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	20	6.0	9.6	6.7	7.4
Total Sulphur	mg/kg	50	MCERTS	280	240	430	230	220
Total Sulphur	%	0.005	MCERTS	0.028	0.024	0.043	0.023	0.022
Ammonium as NH_4	mg/kg	0.5	MCERTS	1.3	0.6	1.4	< 0.5	< 0.5
Ammonium as NH_4 (leachate equivalent)	mg/l	0.05	MCERTS	0.13	0.06	0.14	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO_3	mg/kg	2	NONE	3.4	2.4	2.3	5.7	2.6
Water Soluble Nitrate (2:1) as NO_3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Heavy Metals / Metalloids								
Magnesium (water soluble)	mg/kg	5	NONE	100	19	170	17	21
Magnesium (leachate equivalent)	mg/l	2.5	NONE	50	9.6	85	8.5	10

Analytical Report Number: 18-12745

Project / Site name: Hinckley NRFI
Your Order No: POP023809

Lab Sample Number				1059159	1059160	1059161	1059162	1059163
Sample Reference				WS04	WS07	WS09	WS09	WS21
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.30	2.70	2.00	4.00	2.00
Date Sampled				11/08/2018	10/08/2018	11/08/2018	11/08/2018	20/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	7.0	16	15	12
Total mass of sample received	kg	0.001	NONE	0.43	0.42	0.30	0.32	0.36
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.5	8.6	8.4	8.4	8.6
Total Sulphate as SO_4	mg/kg	50	MCERTS	300	500	430	380	620
Total Sulphate as SO_4	%	0.005	MCERTS	0.030	0.050	0.043	0.038	0.062
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.036	0.026	0.028	0.020	0.14
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	35.7	26.2	28.2	19.9	136
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.2	6.1	10	8.1	29
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.1	3.0	5.2	4.0	15
Total Sulphur	mg/kg	50	MCERTS	120	220	150	130	240
Total Sulphur	%	0.005	MCERTS	0.012	0.022	0.015	0.013	0.024
Ammonium as NH_4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ammonium as NH_4 (leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Water Soluble Nitrate (2:1) as NO_3	mg/kg	2	NONE	2.2	< 2.0	3.8	7.5	2.6
Water Soluble Nitrate (2:1) as NO_3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Heavy Metals / Metalloids								
Magnesium (water soluble)	mg/kg	5	NONE	30	21	37	27	79
Magnesium (leachate equivalent)	mg/l	2.5	NONE	15	11	19	14	40

Analytical Report Number: 18-12745

Project / Site name: Hinckley NRFI
Your Order No: POP023809

Lab Sample Number				1059164	1059165	1059166	1059167	1059168
Sample Reference				WS37	WS37	WS29	WS34	WS34
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	4.00	1.50	1.50	3.50
Date Sampled				20/08/2018	20/08/2018	14/08/2018	09/08/2018	09/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	32
Moisture Content	%	N/A	NONE	13	11	17	9.9	8.1
Total mass of sample received	kg	0.001	NONE	0.32	0.35	0.34	0.36	0.35
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.9	8.3	8.6	8.4	8.4
Total Sulphate as SO_4	mg/kg	50	MCERTS	970	780	600	660	610
Total Sulphate as SO_4	%	0.005	MCERTS	0.097	0.078	0.060	0.066	0.061
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.068	0.26	0.020	0.037	0.045
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	68.2	260	20.0	37.4	44.5
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.1	18	5.3	7.7	4.9
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	2.1	8.9	2.6	3.9	2.4
Total Sulphur	mg/kg	50	MCERTS	400	1200	210	250	400
Total Sulphur	%	0.005	MCERTS	0.040	0.120	0.021	0.025	0.040
Ammonium as NH_4	mg/kg	0.5	MCERTS	< 0.5	0.8	0.7	0.5	< 0.5
Ammonium as NH_4 (leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	0.08	0.07	0.05	< 0.05
Water Soluble Nitrate (2:1) as NO_3	mg/kg	2	NONE	2.5	3.6	3.2	5.1	2.7
Water Soluble Nitrate (2:1) as NO_3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Heavy Metals / Metalloids								
Magnesium (water soluble)	mg/kg	5	NONE	46	96	28	31	43
Magnesium (leachate equivalent)	mg/l	2.5	NONE	23	48	14	16	22

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1059169				
Sample Reference				WS30				
Sample Number				None Supplied				
Depth (m)				2.50				
Date Sampled				21/08/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	16				
Total mass of sample received	kg	0.001	NONE	0.35				
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.5				
Total Sulphate as SO_4	mg/kg	50	MCERTS	380				
Total Sulphate as SO_4	%	0.005	MCERTS	0.038				
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.018				
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	18.4				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.9				
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.4				
Total Sulphur	mg/kg	50	MCERTS	130				
Total Sulphur	%	0.005	MCERTS	0.013				
Ammonium as NH_4	mg/kg	0.5	MCERTS	< 0.5				
Ammonium as NH_4 (leachate equivalent)	mg/l	0.05	MCERTS	< 0.05				
Water Soluble Nitrate (2:1) as NO_3	mg/kg	2	NONE	3.7				
Water Soluble Nitrate (2:1) as NO_3 (leachate equivalent)	mg/l	5	NONE	< 5.0				
Heavy Metals / Metalloids								
Magnesium (water soluble)	mg/kg	5	NONE	28				
Magnesium (leachate equivalent)	mg/l	2.5	NONE	14				

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1059154	TP09	None Supplied	2.00-2.20	Brown clay.
1059155	TP14	None Supplied	1.80-2.00	Brown clay.
1059156	TP09	None Supplied	3.80-4.00	Brown clay.
1059157	TP16	None Supplied	1.80-2.00	Brown clay and sand.
1059158	TP16	None Supplied	3.60-4.00	Brown clay and sand.
1059159	WS04	None Supplied	1.30	Brown clay and sand.
1059160	WS07	None Supplied	2.70	Brown clay and sand.
1059161	WS09	None Supplied	2.00	Brown clay.
1059162	WS09	None Supplied	4.00	Red clay.
1059163	WS21	None Supplied	2.00	Brown clay with gravel.
1059164	WS37	None Supplied	2.00	Brown clay and sand with gravel.
1059165	WS37	None Supplied	4.00	Brown clay with gravel.
1059166	WS29	None Supplied	1.50	Red clay and sand with gravel.
1059167	WS34	None Supplied	1.50	Red clay and loam with gravel and chalk.
1059168	WS34	None Supplied	3.50	Red clay with stones and gravel.
1059169	WS30	None Supplied	2.50	Red clay.

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L038	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
TP09		S	18-12745	1059154	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
TP09		S	18-12745	1059154	c	Ammonium as NH4 in soil	L082-PL	c
TP09		S	18-12745	1059154	c	Chloride, water soluble, in soil	L082-PL	c
TP09		S	18-12745	1059154	c	Nitrate, water soluble, in soil	L078-PL	c
TP09		S	18-12745	1059154	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
TP09		S	18-12745	1059154	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
TP09		S	18-12745	1059154	c	pH in soil (automated)	L099-PL	c
TP09		S	18-12745	1059156	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
TP09		S	18-12745	1059156	c	Ammonium as NH4 in soil	L082-PL	c
TP09		S	18-12745	1059156	c	Chloride, water soluble, in soil	L082-PL	c
TP09		S	18-12745	1059156	c	Nitrate, water soluble, in soil	L078-PL	c
TP09		S	18-12745	1059156	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
TP09		S	18-12745	1059156	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
TP09		S	18-12745	1059156	c	pH in soil (automated)	L099-PL	c
TP14		S	18-12745	1059155	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
TP14		S	18-12745	1059155	c	Ammonium as NH4 in soil	L082-PL	c
TP14		S	18-12745	1059155	c	Chloride, water soluble, in soil	L082-PL	c
TP14		S	18-12745	1059155	c	Nitrate, water soluble, in soil	L078-PL	c
TP14		S	18-12745	1059155	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
TP14		S	18-12745	1059155	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
TP14		S	18-12745	1059155	c	pH in soil (automated)	L099-PL	c
TP16		S	18-12745	1059157	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
TP16		S	18-12745	1059157	c	Ammonium as NH4 in soil	L082-PL	c
TP16		S	18-12745	1059157	c	Chloride, water soluble, in soil	L082-PL	c
TP16		S	18-12745	1059157	c	Nitrate, water soluble, in soil	L078-PL	c
TP16		S	18-12745	1059157	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
TP16		S	18-12745	1059157	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
TP16		S	18-12745	1059157	c	pH in soil (automated)	L099-PL	c
TP16		S	18-12745	1059158	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
TP16		S	18-12745	1059158	c	Ammonium as NH4 in soil	L082-PL	c
TP16		S	18-12745	1059158	c	Chloride, water soluble, in soil	L082-PL	c
TP16		S	18-12745	1059158	c	Nitrate, water soluble, in soil	L078-PL	c
TP16		S	18-12745	1059158	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
TP16		S	18-12745	1059158	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
TP16		S	18-12745	1059158	c	pH in soil (automated)	L099-PL	c
WS04		S	18-12745	1059159	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS04		S	18-12745	1059159	c	Ammonium as NH4 in soil	L082-PL	c
WS04		S	18-12745	1059159	c	Chloride, water soluble, in soil	L082-PL	c
WS04		S	18-12745	1059159	c	Nitrate, water soluble, in soil	L078-PL	c
WS04		S	18-12745	1059159	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS04		S	18-12745	1059159	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS04		S	18-12745	1059159	c	pH in soil (automated)	L099-PL	c
WS07		S	18-12745	1059160	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS07		S	18-12745	1059160	c	Ammonium as NH4 in soil	L082-PL	c
WS07		S	18-12745	1059160	c	Chloride, water soluble, in soil	L082-PL	c
WS07		S	18-12745	1059160	c	Nitrate, water soluble, in soil	L078-PL	c
WS07		S	18-12745	1059160	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS07		S	18-12745	1059160	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS07		S	18-12745	1059160	c	pH in soil (automated)	L099-PL	c
WS09		S	18-12745	1059161	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS09		S	18-12745	1059161	c	Ammonium as NH4 in soil	L082-PL	c

WS09		S	18-12745	1059161	c	Chloride, water soluble, in soil	L082-PL	c
WS09		S	18-12745	1059161	c	Nitrate, water soluble, in soil	L078-PL	c
WS09		S	18-12745	1059161	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS09		S	18-12745	1059161	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS09		S	18-12745	1059161	c	pH in soil (automated)	L099-PL	c
WS09		S	18-12745	1059162	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS09		S	18-12745	1059162	c	Ammonium as NH4 in soil	L082-PL	c
WS09		S	18-12745	1059162	c	Chloride, water soluble, in soil	L082-PL	c
WS09		S	18-12745	1059162	c	Nitrate, water soluble, in soil	L078-PL	c
WS09		S	18-12745	1059162	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS09		S	18-12745	1059162	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS09		S	18-12745	1059162	c	pH in soil (automated)	L099-PL	c
WS21		S	18-12745	1059163	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS21		S	18-12745	1059163	c	Ammonium as NH4 in soil	L082-PL	c
WS21		S	18-12745	1059163	c	Chloride, water soluble, in soil	L082-PL	c
WS21		S	18-12745	1059163	c	Nitrate, water soluble, in soil	L078-PL	c
WS21		S	18-12745	1059163	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS21		S	18-12745	1059163	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS21		S	18-12745	1059163	c	pH in soil (automated)	L099-PL	c
WS29		S	18-12745	1059166	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS29		S	18-12745	1059166	c	Ammonium as NH4 in soil	L082-PL	c
WS29		S	18-12745	1059166	c	Chloride, water soluble, in soil	L082-PL	c
WS29		S	18-12745	1059166	c	Nitrate, water soluble, in soil	L078-PL	c
WS29		S	18-12745	1059166	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS29		S	18-12745	1059166	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS29		S	18-12745	1059166	c	pH in soil (automated)	L099-PL	c
WS30		S	18-12745	1059169	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS30		S	18-12745	1059169	c	Ammonium as NH4 in soil	L082-PL	c
WS30		S	18-12745	1059169	c	Chloride, water soluble, in soil	L082-PL	c
WS30		S	18-12745	1059169	c	Nitrate, water soluble, in soil	L078-PL	c
WS30		S	18-12745	1059169	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS30		S	18-12745	1059169	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS30		S	18-12745	1059169	c	pH in soil (automated)	L099-PL	c
WS34		S	18-12745	1059167	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS34		S	18-12745	1059167	c	Ammonium as NH4 in soil	L082-PL	c
WS34		S	18-12745	1059167	c	Chloride, water soluble, in soil	L082-PL	c
WS34		S	18-12745	1059167	c	Nitrate, water soluble, in soil	L078-PL	c
WS34		S	18-12745	1059167	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS34		S	18-12745	1059167	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS34		S	18-12745	1059167	c	pH in soil (automated)	L099-PL	c
WS34		S	18-12745	1059168	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS34		S	18-12745	1059168	c	Ammonium as NH4 in soil	L082-PL	c
WS34		S	18-12745	1059168	c	Chloride, water soluble, in soil	L082-PL	c
WS34		S	18-12745	1059168	c	Nitrate, water soluble, in soil	L078-PL	c
WS34		S	18-12745	1059168	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS34		S	18-12745	1059168	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS34		S	18-12745	1059168	c	pH in soil (automated)	L099-PL	c
WS37		S	18-12745	1059164	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS37		S	18-12745	1059164	c	Ammonium as NH4 in soil	L082-PL	c
WS37		S	18-12745	1059164	c	Chloride, water soluble, in soil	L082-PL	c
WS37		S	18-12745	1059164	c	Nitrate, water soluble, in soil	L078-PL	c
WS37		S	18-12745	1059164	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS37		S	18-12745	1059164	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS37		S	18-12745	1059164	c	pH in soil (automated)	L099-PL	c

WS37		S	18-12745	1059165	c	Ammoniacal Nitrogen as N in soil	L082-PL	c
WS37		S	18-12745	1059165	c	Ammonium as NH4 in soil	L082-PL	c
WS37		S	18-12745	1059165	c	Chloride, water soluble, in soil	L082-PL	c
WS37		S	18-12745	1059165	c	Nitrate, water soluble, in soil	L078-PL	c
WS37		S	18-12745	1059165	c	Water Soluble Nitrate (2:1) as N in soil	L078-PL	c
WS37		S	18-12745	1059165	c	Water Soluble Nitrate (leachate equivalent)	L078-PL	c
WS37		S	18-12745	1059165	c	pH in soil (automated)	L099-PL	c

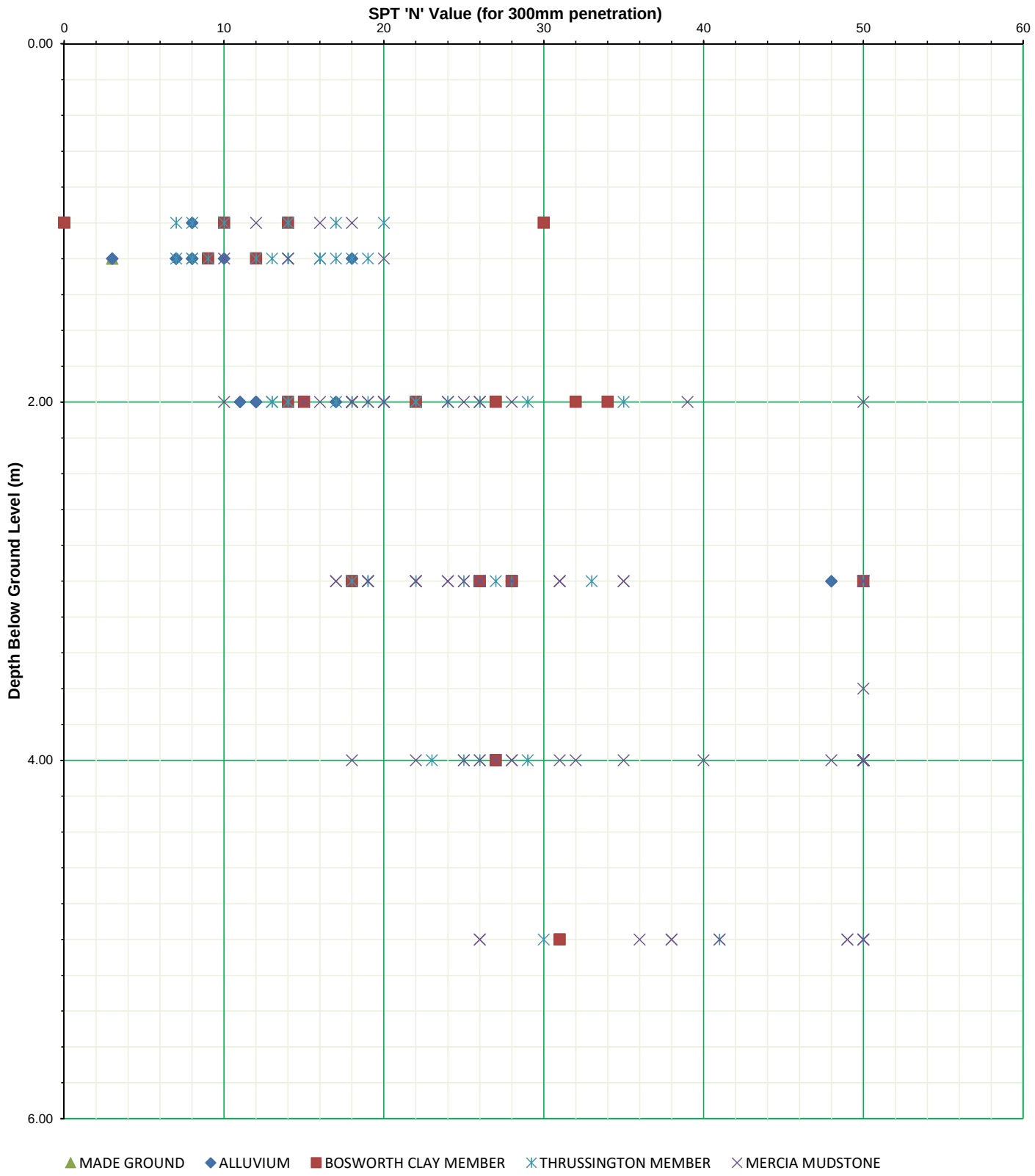
Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

Geotechnical Plots

Hydrock

SPT 'N' VALUES vs DEPTH

Site:	Client:	Contract No.	C-07700-C
SRFI Hinckley	db Symmetry	All Data	

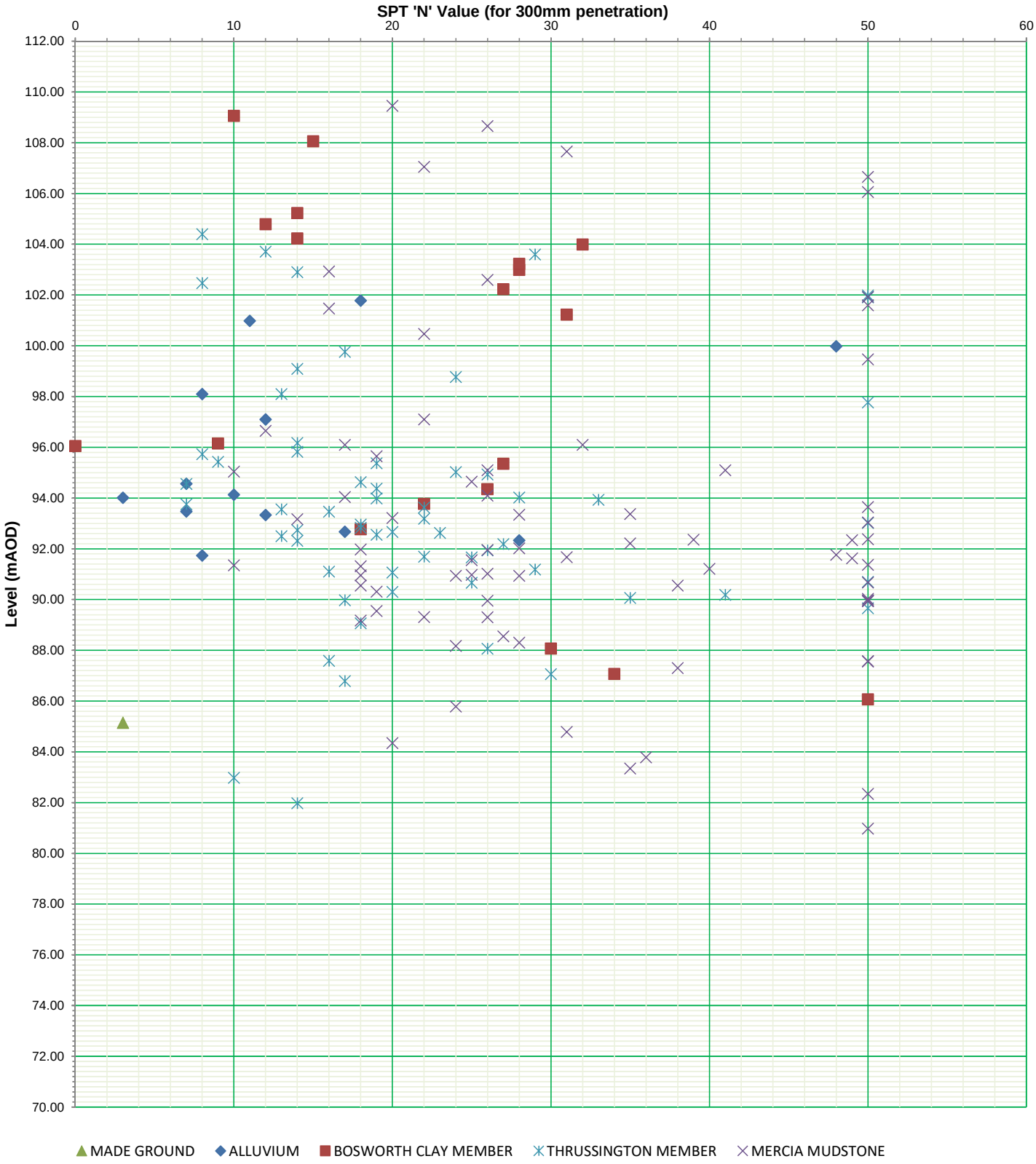


Template Version	0.3	Template Date	01/12/2017

Hydrock

SPT 'N' VALUES vs LEVEL

Site:	Client:	Contract No.	C-07700-C
SRFI Hinckley	db Symmetry	All Data	



Template Version	0.3	Template Date	01/12/2017

Appendix G

Site Monitoring Data and Ground Gas Risk Assessment

Site Monitoring Data

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Site: SRFI, Hinckley
Job number: C 07700 C
Client: [client name]

Gas analyser: GFM435 No. 11874
Equipment check OK: Y
Service in date: Y
Calibration check OK: Y
Name of person monitoring: Rod Langley

Notes on site conditions:

02.10.2018	Weather conditions = Dry with stiff breeze
09.10.2018	Weather conditions = Dry & clear with sligth breeze
16.10.2018	Weather conditions = Overcast with occassional drizzle
22.11.2018	Weather conditions = Frost at first followed low cloud
29.11.2018	Weather conditions = Strong wind with showers
14.12.2018	Weather conditions = Dry with slight breeze

Notes: LEL = lower explosive limit = 5%v/v. * where the flow is less than the limit of detection of the instrument, the detection limit is reported. GSVs are rounded to 3 places.

Monitoring round		Borehole details						Pressure and flow					Gas concentrations										GSV		Local conditions
Date	Time	Borehole	Single or dual gas tap	Response zone depth (m)	Depth to water or depth of hole if dry (m)	D denotes dry hole	Volume of headspace in BH (well pipie & filter pack) (m^3)	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	VOC (as ppm using PID)	CH_4 (%v/v)		CH_4 (%LEL)		H2S (ppm)	CO (ppm)	CO_2 (%v/v)		O_2 (%v/v)		Gas Screening Value (CH_4) (l/hr)	Gas Screening Value (CO_2) (l/hr)	Notes on condition of borehole and surrounding ground
														Initial	Steady	Initial	Steady			Initial	Steady	Initial	Steady			
02.10.2018		WS 02	S		2.49		0.05mØ x 2.61m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.1	0.1	20.8	20.8			
02.10.2018		WS 03	S		1.93		0.05mØ x 4.62m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.3	0.3	20.7	20.7			
02.10.2018		WS 04	S		2.34		0.05mØ x 3.46m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.4	1.4	19.7	19.7			
02.10.2018		WS 05	S		4.68	D	0.05mØ x 4.68m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.6	20.6			No bung in place on arrival to monitor
02.10.2018		WS 08	S		1.86		0.05mØ x 3.32m	1009	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.6	20.6			
02.10.2018		WS 11	S		1.04		0.05mØ x 4.87m	1008	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	19.9	19.9			
02.10.2018		WS 13	S		4.60		0.05mØ x 5.07m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.2	20.2			
02.10.2018		WS 21	S		2.81		0.05mØ x 2.95m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.4	20.4			
02.10.2018		WS 22	S		2.79		0.05mØ x 3.08m	1008	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.4	20.4			
02.10.2018		WS 26	S										Frisky Bullocks in field. No readings taken													
02.10.2018		WS 30	S										Frisky Bullocks in field. No readings taken													
02.10.2018		WS 31	S		2.69		0.05mØ x 2.78m	1018	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	20.3	20.3			
02.10.2018		WS 37	S										Frisky Bullocks in field. No readings taken													
02.10.2018		WS 38	S										Frisky Bullocks in field. No readings taken													
02.10.2018		WS 39	S		1.23		0.05mØ x 3.78m	1010	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.8	20.8			
02.10.2018		WS 40	S		1.66		0.05mØ x 2.78m	1008	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.6	20.6			
02.10.2018		WS 42	S		2.84	D	0.05mØ x 2.84m	1008	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.4	20.4			
09.10.2018		WS 02	S		2.50		0.05mØ x 2.61m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.7	20.7			
09.10.2018		WS 03	S		1.94		0.05mØ x 4.62m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.8	20.8			
09.10.2018		WS 04	S		2.37		0.05mØ x 3.46m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.4	1.4	20.3	20.3			
09.10.2018		WS 05	S		4.68	D	0.05mØ x 4.68m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.3	2.3	18.7	18.7			
09.10.2018		WS 08	S		1.85		0.05mØ x 3.32m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.3	0.3	20.7	20.7			
09.10.2018		WS 11	S		1.07		0.05mØ x 4.87m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.3	1.3	19.9	19.9			
09.10.2018		WS 13	S		4.51		0.05mØ x 5.07m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.5	20.5			
09.10.2018		WS 21	S		2.78		0.05mØ x 2.95m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	19.9	19.9			
09.10.2018		WS 22	S		2.81		0.05mØ x 3.08m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	19.8	19.8			
09.10.2018		WS 26	S		1.96		0.05mØ x 3.74m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.6	20.6			
09.10.2018		WS 30	S		1.64		0.05mØ x 4.06m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.6	20.6			
09.10.2018		WS 31	S		2.69		0.05mØ x 2.78m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.4	20.4			
09.10.2018		WS 37	S		3.73		0.05mØ x 4.56m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.0	1.0	20.1	20.1			
09.10.2018		WS 38	S		3.15	D	0.05mØ x 3.15m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	20.4	20.4			
09.10.2018		WS 39	S		1.22		0.05mØ x 3.78m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.7	20.7			
09.10.2018		WS 40	S		1.67		0.05mØ x 2.78m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.8	20.8			
09.10.2018		WS 42	S		2.84	D	0.05mØ x 2.84m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	19.8	19.8			

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Monitoring round		Borehole details						Pressure and flow					Gas concentrations										GSV		Local conditions
Date	Time	Borehole	Single or dual gas tap	Response zone depth (m)	Depth to water or depth of hole if dry (m)	D denotes dry hole	Volume of headspace in BH (well pipie & filter pack) (m^3)	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	VOC (as ppm using PID)	CH_4 (%v/v)		CH_4 (%LEL)		H2S (ppm)	CO (ppm)	CO_2 (%v/v)		O_2 (%v/v)		Gas Screening Value (CH_4) (l/hr)	Gas Screening Value (CO_2) (l/hr)	Notes on condition of borehole and surrounding ground
														Initial	Steady	Initial	Steady			Initial	Steady	Initial	Steady			
16.10.2018		WS 02	S		2.41		0.05mØ x 2.61m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.6	20.6		0	
16.10.2018		WS 03	S		1.92		0.05mØ x 4.62m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.3	0.3	20.7	20.7		0	
16.10.2018		WS 04	S		2.30		0.05mØ x 3.46m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.2	1.2	20.6	20.6		0	
16.10.2018		WS 05	S		4.68	D	0.05mØ x 4.68m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.6	2.6	18.5	18.5		0	
16.10.2018		WS 08	S		1.86		0.05mØ x 3.32m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.6	20.6		0	
16.10.2018		WS 11	S		0.93		0.05mØ x 4.87m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.8	2.8	19.5	19.5		0	
16.10.2018		WS 13	S		4.81		0.05mØ x 5.07m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	20.3	20.3		0	
16.10.2018		WS 21	S		2.74		0.05mØ x 2.95m	1010	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	20.1	20.1		0	
16.10.2018		WS 22	S		2.71		0.05mØ x 3.08m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.5	20.5		0	
16.10.2018		WS 26	S		1.58		0.05mØ x 3.74m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	19.9	19.9		0	
16.10.2018		WS 30	S		1.49		0.05mØ x 4.06m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	20.2	20.2		0	
16.10.2018		WS 31	S		2.69		0.05mØ x 2.78m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.0	1.0	19.5	19.5		0	
16.10.2018		WS 37	S		4.34		0.05mØ x 4.56m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.1	1.1	18.6	18.6		0	
16.10.2018		WS 38	S		3.15	D	0.05mØ x 3.15m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.0	20.0		0	
16.10.2018		WS 39	S		1.14		0.05mØ x 3.78m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.8	20.8		0	
16.10.2018		WS 40	S				0.05mØ x 2.78m							No readings due to frisky bulls in field												
16.10.2018		WS 42	S		2.84	D	0.05mØ x 2.84m	1010	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.0	20.0		0	
22.11.2018		WS 02	S		2.13		0.05mØ x 2.61m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.5	20.5		0	
22.11.2018		WS 03	S		1.83		0.05mØ x 4.62m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.4	20.4		0	
22.11.2018		WS 04	S		2.43		0.05mØ x 3.46m	1008	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.0	1.0	19.8	19.8		0	
22.11.2018		WS 05	S		4.68	D	0.05mØ x 4.68m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.3	2.3	18.4	18.4		0	
22.11.2018		WS 08	S		1.86		0.05mØ x 3.32m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.2	20.2		0	
22.11.2018		WS 11	S		0.58		0.05mØ x 4.87m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	5.3	5.3	16.5	16.5		0	
22.11.2018		WS 13	S		4.50		0.05mØ x 5.07m	1006	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.2	20.2		0	
22.11.2018		WS 21	S		2.09		0.05mØ x 2.95m	1008	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	19.7	19.7		0	
22.11.2018		WS 22	S		2.52		0.05mØ x 3.08m	1006	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.3	20.3		0	
22.11.2018		WS 26	S		2.02		0.05mØ x 3.74m	1011	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.6	20.6		0	
22.11.2018		WS 30	S		1.68		0.05mØ x 4.06m	1009	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	20.5	20.5		0	
22.11.2018		WS 31	S		2.70		0.05mØ x 2.78m	1008	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	20.0	20.0		0	
22.11.2018		WS 37	S		3.73		0.05mØ x 4.56m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.2	20.2		0	
22.11.2018		WS 38	S		3.15	D	0.05mØ x 3.15m	1008	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.4	20.4		0	
22.11.2018		WS 39	S		1.10		0.05mØ x 3.78m	1007	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.4	20.4		0	
22.11.2018		WS 40	S		1.47		0.05mØ x 2.78m	1006	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.0	0.0	20.7	20.7		0	
22.11.2018		WS 42	S		2.84	D	0.05mØ x 2.84m	1005	R	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.5	20.5		0	
29.11.2018		WS 02	S		2.48		0.05mØ x 2.61m	981	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	20.1	20.1		0	
29.11.2018		WS 03	S		1.82		0.05mØ x 4.62m	978	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.1	20.1		0	
29.11.2018		WS 04	S		2.31		0.05mØ x 3.46m	979	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.3	2.3	19.1	19.1		0	
29.11.2018		WS 05	S		4.68	D	0.05mØ x 4.68m	982	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.1	2.1	18.3	18.3		0	
29.11.2018		WS 08	S		1.87		0.05mØ x 3.32m	981	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	19.8	19.8		0	
29.11.2018		WS 11	S		0.58		0.05mØ x 4.87m	983	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	5.1	5.1	16.2	16.2		0	
29.11.2018		WS 13	S		4.48		0.05mØ x 5.07m	983	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.1	20.1		0	
29.11.2018		WS 21	S		2.07		0.05mØ x 2.95m	978	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	19.4	19.4		0	

Hydrock

Monitoring round		Borehole details						Pressure and flow					Gas concentrations										GSV		Local conditions
Date	Time	Borehole	Single or dual gas tap	Response zone depth (m)	Depth to water or depth of hole if dry (m)	D denotes dry hole	Volume of headspace in BH (well pipie & filter pack) (m^3)	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	VOC (as ppm using PID)	CH_4 (%v/v)		CH_4 (%LEL)		H2S (ppm)	CO (ppm)	CO_2 (%v/v)		O_2 (%v/v)		Gas Screening Value (CH_4) (l/hr)	Gas Screening Value (CO_2) (l/hr)	Notes on condition of borehole and surrounding ground
														Initial	Steady	Initial	Steady			Initial	Steady	Initial	Steady			
29.11.2018		WS 22	S				0.05mø x 3.08m							No access. Recently ploughed and seeded field.												
29.11.2018		WS 26	S		1.72		0.05mø x 3.74m	981	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.3	0.3	20.7	20.7		0	
29.11.2018		WS 30	S		1.54		0.05mø x 4.06m	977	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	20.3	20.3		0	
29.11.2018		WS 31	S		2.70		0.05mø x 2.78m	977	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	20.2	20.2		0	
29.11.2018		WS 37	S		3.65		0.05mø x 4.56m	977	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	19.9	19.9		0	
29.11.2018		WS 38	S		3.15	D	0.05mø x 3.15m	978	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.7	20.7		0	
29.11.2018		WS 39	S		1.00		0.05mø x 3.78m	979	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.2	0.2	20.6	20.6		0	
29.11.2018		WS 40	S		1.13		0.05mø x 2.78m	982	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.1	0.1	20.6	20.6		0	
29.11.2018		WS 42	S		2.84	D	0.05mø x 2.84m	982	F	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	20.1	20.1		0	
14.12.2018		WS 02	S		2.07		0.05mø x 2.61m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.5	0.5	20.5	20.5		0	
14.12.2018		WS 03	S		0.83		0.05mø x 4.62m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.9	0.9	19.6	19.6		0	
14.12.2018		WS 04	S		2.29		0.05mø x 3.46m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.4	1.4	19.6	19.6		0	
14.12.2018		WS 05	S		4.68	D	0.05mø x 4.68m	1012	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	2.5	2.5	16.5	16.5		0	
14.12.2018		WS 08	S		0.96		0.05mø x 3.32m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.6	0.6	19.8	19.8		0	
14.12.2018		WS 11	S		0.44		0.05mø x 4.87m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	6.0	6.0	14.8	14.8		0	
14.12.2018		WS 13	S		4.38		0.05mø x 5.07m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	19.9	19.9		0	
14.12.2018		WS 21	S		2.04		0.05mø x 2.95m	1007	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.8	0.8	19.7	19.7		0	
14.12.2018		WS 22	S		2.48		0.05mø x 3.08m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	20.1	20.1		0	
14.12.2018		WS 26	S		1.69		0.05mø x 3.74m	1011	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.3	0.3	20.7	20.7		0	
14.12.2018		WS 30	S		1.61		0.05mø x 4.06m	1008	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.2	1.2	19.5	19.5		0	
14.12.2018		WS 31	S		2.64		0.05mø x 2.78m	1008	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.1	1.1	19.8	19.8		0	
14.12.2018		WS 37	S		3.50		0.05mø x 4.56m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	1.3	1.3	19.1	19.1		0	
14.12.2018		WS 38	S		3.15	D	0.05mø x 3.15m	1015	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	19.8	19.8		0	
14.12.2018		WS 39	S		1.04		0.05mø x 3.78m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.4	0.4	20.4	20.4		0	
14.12.2018		WS 40	S		1.41		0.05mø x 2.78m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.1	0.1	20.8	20.8		0	
14.12.2018		WS 42	S		2.84	D	0.05mø x 2.84m	1013	S	0	0.0	0.0		0.1	0.1	0.1	0.1	1	1	0.7	0.7	20.3	20.3		0	

Appendix H

Contamination Test Results and Statistical Analysis

Contamination Test Results

Julian Charlesworth
Hydrock Consultants Ltd
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Holdenby Road
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Northamptonshire
NN6 8LD

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7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
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Analytical Report Number : 18-99498

Project / Site name:	Hinckley NRFI	**Samples received on:**	28/08/2018
Your job number:	C-07700-C-PT1	**Samples instructed on:**	07/09/2018
Your order number:	POP023807	**Analysis completed by:**	18/09/2018
Report Issue Number:	1	**Report issued on:**	18/09/2018
Samples Analysed:	61 soil samples		

Signed: [redacted]

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041378	1041379	1041380	1041381	1041382
Sample Reference				HP01	HP02	HP03	HP04	HP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	0.50	0.30	0.40
Date Sampled				08/08/2018	08/08/2018	08/08/2018	09/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	8.8	9.4	25	9.4	12
Total mass of sample received	kg	0.001	NONE	0.39	0.46	0.45	0.45	0.42
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	9.0	8.2	7.7	7.9	8.0
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.030	0.12	0.49	0.018	0.028
Organic Matter	%	0.1	MCERTS	0.4	-	-	-	0.7
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.0021	0.026	0.031	0.012	0.0039
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.27	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.88	0.29	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.85	0.29	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.47	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.62	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.80	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.24	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.70	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.43	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.55	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	5.81	< 0.80	< 0.80	< 0.80

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041378	1041379	1041380	1041381	1041382
Sample Reference				HP01	HP02	HP03	HP04	HP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	0.50	0.30	0.40
Date Sampled				08/08/2018	08/08/2018	08/08/2018	09/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.9	6.5	9.5	5.2	6.7
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.4	1.3	0.63	0.83
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1.7	8.2	1.4	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.4	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	30	86	27	17	21
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	86	28	18	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	44	27	24	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	300	51	21	7.9
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27	55	28	13	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.7	1.2	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	47	37	25	32
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	260	86	52	55
Monoaromatics								
Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	2.1	< 2.0	-	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	-	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	-	-	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	-	< 8.4
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	-	-	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	30	-	-	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	-	< 8.4

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041378	1041379	1041380	1041381	1041382
Sample Reference				HP01	HP02	HP03	HP04	HP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	0.50	0.30	0.40
Date Sampled				08/08/2018	08/08/2018	08/08/2018	09/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
1,1-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1-dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2-dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2-dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
N-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
Sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,3-dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
P-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
1,2-dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,4-dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	< 1.0

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041383	1041384	1041385	1041386	1041387
Sample Reference				HP06	HP08	HP08	HP09	HP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.30	0.50	0.50	0.20
Date Sampled				14/08/2018	14/08/2018	14/08/2018	12/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	25	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	4.0	10	12	15
Total mass of sample received	kg	0.001	NONE	0.45	0.46	0.37	0.40	0.40
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.8	6.8	7.3	7.5	7.1
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.058	0.030	0.029	0.065	0.10
Organic Matter	%	0.1	MCERTS	0.5	-	-	-	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.0028	0.034	0.0050	0.0022	0.022
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	1.3	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.63	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.58	< 0.05	< 0.05	0.17
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	14	< 0.05	< 0.05	2.5
Anthracene	mg/kg	0.05	MCERTS	< 0.05	5.0	< 0.05	< 0.05	0.64
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	41	< 0.05	< 0.05	5.6
Pyrene	mg/kg	0.05	MCERTS	< 0.05	37	< 0.05	< 0.05	4.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	19	< 0.05	< 0.05	2.6
Chrysene	mg/kg	0.05	MCERTS	< 0.05	17	< 0.05	< 0.05	2.1
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	23	< 0.05	< 0.05	2.9
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	10	< 0.05	< 0.05	0.76
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	22	< 0.05	< 0.05	2.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	11	< 0.05	< 0.05	1.0
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	2.8	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	12	< 0.05	< 0.05	1.3
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	216	< 0.80	< 0.80	26.6

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041383	1041384	1041385	1041386	1041387
Sample Reference				HP06	HP08	HP08	HP09	HP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.30	0.50	0.50	0.20
Date Sampled				14/08/2018	14/08/2018	14/08/2018	12/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.2	11	5.1	3.1	8.0
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	1.8	0.90	1.1	1.0
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	1.1	1.0	1.1	2.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.4
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	50	17	27	31	24
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	50	18	27	31	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	44	12	49	51
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.5	28	9.2	6.3	49
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	44	28	22	30	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	37	44	27	29	35
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	72	85	65	52	160
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	-	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	20	-	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	210	-	-	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	190	-	-	< 8.4
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	17	-	-	2.5
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	290	-	-	16
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	1200	-	-	79
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	860	-	-	< 8.4

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Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041383	1041384	1041385	1041386	1041387
Sample Reference				HP06	HP08	HP08	HP09	HP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.30	0.50	0.50	0.20
Date Sampled				14/08/2018	14/08/2018	14/08/2018	12/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
N-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041388	1041389	1041390	1041391	1041392
Sample Reference				HP10	HP11	HP13	HP14	HP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	0.30	0.30	0.30
Date Sampled				14/08/2018	14/08/2018	13/08/2018	13/08/2018	13/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	11	14	12	6.7
Total mass of sample received	kg	0.001	NONE	0.45	0.42	0.44	0.42	0.47
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.1	7.2	7.6	7.6	8.0
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.10	0.036	0.057	0.039	0.032
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.0031	0.012	0.018	0.038	0.015
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.57	0.61	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.13	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.76	1.6	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.66	1.4	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.34	0.77	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.33	0.65	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.44	1.1	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14	0.32	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.36	0.93	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.20	0.48	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.31	0.57	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	4.11	8.53	< 0.80

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Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041388	1041389	1041390	1041391	1041392
Sample Reference				HP10	HP11	HP13	HP14	HP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	0.30	0.30	0.30
Date Sampled				14/08/2018	14/08/2018	13/08/2018	13/08/2018	13/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.0	12	11	6.3	8.2
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	1.0	0.90	1.9	0.61
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7	1.9	3.1	3.7	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	1.2	0.9	1.6
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	51	27	20	25	20
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	51	27	20	26	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	19	260	75	2100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.3	23	160	110	1100
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	45	23	22	28	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.2	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	43	38	37	32	44
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	75	78	160	530	260
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041388	1041389	1041390	1041391	1041392
Sample Reference				HP10	HP11	HP13	HP14	HP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.30	0.30	0.30	0.30
Date Sampled				14/08/2018	14/08/2018	13/08/2018	13/08/2018	13/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041393	1041394	1041395	1041396	1041397
Sample Reference				HP16	TP01	TP01	TP01	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.75	0.15	0.25	0.30
Date Sampled				13/08/2018	23/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	7.2	13	11	11	9.5
Total mass of sample received	kg	0.001	NONE	0.44	0.47	0.37	0.38	0.41
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.5	7.3	-	-	-
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.012	0.014	-	-	-
Organic Matter	%	0.1	MCERTS	-	3.0	3.1	3.2	3.1
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.011	0.017	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	-	-	-

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041393	1041394	1041395	1041396	1041397
Sample Reference				HP16	TP01	TP01	TP01	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.75	0.15	0.25	0.30
Date Sampled				13/08/2018	23/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.9	8.6	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.78	1.1	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	1.6	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	-	-	-
Chromium (III)	mg/kg	1	NONE	22	31	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	31	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	25	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	34	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	21	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	25	42	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	52	75	-	-	-
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041393	1041394	1041395	1041396	1041397
Sample Reference				HP16	TP01	TP01	TP01	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.75	0.15	0.25	0.30
Date Sampled				13/08/2018	23/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041398	1041399	1041400	1041401	1041402
Sample Reference				TP04	TP04	TP04	TP04	TP04 (Combined)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.75	0.25	0.30	0.10-0.30
Date Sampled				23/08/2018	23/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	12	9.5	9.5	9.8	11
Total mass of sample received	kg	0.001	NONE	0.41	0.44	0.42	0.46	0.50
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	-	-	7.3
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	0.021
Organic Matter	%	0.1	MCERTS	2.8	2.5	2.3	2.5	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	-	-	-	-	0.015
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-	< 0.80

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041398	1041399	1041400	1041401	1041402
Sample Reference				TP04	TP04	TP04	TP04	TP04 (Combined)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.75	0.25	0.30	0.10-0.30
Date Sampled				23/08/2018	23/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	5.0
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	0.93
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	1.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	-	< 1.2
Chromium (III)	mg/kg	1	NONE	-	-	-	-	27
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	32
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	48
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041398	1041399	1041400	1041401	1041402
Sample Reference				TP04	TP04	TP04	TP04	TP04 (Combined)
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.75	0.25	0.30	0.10-0.30
Date Sampled				23/08/2018	23/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

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Lab Sample Number				1041403	1041404	1041405	1041406	1041407
Sample Reference				TP08	TP08	TP08	TP12	TP12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.22	0.30	0.10	0.20
Date Sampled				23/08/2018	23/08/2018	23/08/2018	20/08/2018	20/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	12	13	17	14
Total mass of sample received	kg	0.001	NONE	0.42	0.44	0.41	0.40	0.38
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	-	7.1	7.1
Free Cyanide	mg/kg	1	MCERTS	-	-	-	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	0.022	0.021
Organic Matter	%	0.1	MCERTS	3.6	3.4	3.2	4.2	4.4
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	-	-	-	0.024	0.025
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	< 0.80	< 0.80

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041403	1041404	1041405	1041406	1041407
Sample Reference				TP08	TP08	TP08	TP12	TP12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.22	0.30	0.10	0.20
Date Sampled				23/08/2018	23/08/2018	23/08/2018	20/08/2018	20/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	8.3	9.6
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	1.5	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	3.2	3.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	0.3	0.3
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	-	-	-	41	39
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	42	39
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	21	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	29	30
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	25	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	53	46
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	95	90
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	< 8.4	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	< 8.4	-

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Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041403	1041404	1041405	1041406	1041407
Sample Reference				TP08	TP08	TP08	TP12	TP12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.22	0.30	0.10	0.20
Date Sampled				23/08/2018	23/08/2018	23/08/2018	20/08/2018	20/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041408	1041409	1041410	1041411	1041412
Sample Reference				TP12	TP12	TP20	TP20	TP20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	0.225	0.30	0.75
Date Sampled				20/08/2018	20/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	12	12	11	15
Total mass of sample received	kg	0.001	NONE	0.40	0.32	0.41	0.39	0.43
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	-	-	7.1
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	0.040
Organic Matter	%	0.1	MCERTS	3.6	4.8	3.1	3.2	3.3
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	-	-	-	-	0.019
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-	< 0.80

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041408	1041409	1041410	1041411	1041412
Sample Reference				TP12	TP12	TP20	TP20	TP20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	0.225	0.30	0.75
Date Sampled				20/08/2018	20/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	6.3
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	0.99
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	2.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	-	< 1.2
Chromium (III)	mg/kg	1	NONE	-	-	-	-	30
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	44
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	63
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041408	1041409	1041410	1041411	1041412
Sample Reference				TP12	TP12	TP20	TP20	TP20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	0.225	0.30	0.75
Date Sampled				20/08/2018	20/08/2018	23/08/2018	23/08/2018	23/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

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Lab Sample Number				1041413	1041414	1041415	1041416	1041417
Sample Reference				WS02	WS04	WS07	WS08	WS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.50	0.30	0.40	0.75
Date Sampled				17/08/2018	10/08/2018	16/08/2018	10/08/2018	13/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	11	12	12	7.8	8.1
Total mass of sample received	kg	0.001	NONE	0.42	0.42	0.42	0.42	0.41
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	6.9	7.5	7.4	7.3	6.8
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.013	0.058	0.021	0.018	0.020
Organic Matter	%	0.1	MCERTS	-	-	-	-	3.1
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.016	0.0052	0.0097	0.018	0.018
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.27	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.23	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80

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Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041413	1041414	1041415	1041416	1041417
Sample Reference				WS02	WS04	WS07	WS08	WS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.50	0.30	0.40	0.75
Date Sampled				17/08/2018	10/08/2018	16/08/2018	10/08/2018	13/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.4	8.2	9.1	4.9	6.7
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.96	1.5	1.5	0.62	0.68
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7	0.8	2.5	2.0	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	27	40	39	22	21
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	41	39	22	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	30	21	15	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	25	19	24	18
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	41	35	13	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32	44	45	29	25
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58	75	60	57	51
Monoaromatics								
Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	-	17	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	< 8.4
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	-	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	-	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	< 8.4

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041413	1041414	1041415	1041416	1041417
Sample Reference				WS02	WS04	WS07	WS08	WS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.50	0.30	0.40	0.75
Date Sampled				17/08/2018	10/08/2018	16/08/2018	10/08/2018	13/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041418	1041419	1041420	1041421	1041422
Sample Reference				WS10	WS10	WS10	WS11	WS13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.225	0.30	0.30	0.50
Date Sampled				13/08/2018	13/08/2018	13/08/2018	09/08/2018	08/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	7.5	7.2	8.0	12	8.2
Total mass of sample received	kg	0.001	NONE	0.41	0.41	0.40	0.41	0.23
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	-	7.3	8.4
Free Cyanide	mg/kg	1	MCERTS	-	-	-	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	0.045	0.017
Organic Matter	%	0.1	MCERTS	3.0	2.8	2.8	-	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	-	-	-	0.022	0.0030
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.49	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.81	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.82	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	0.45	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.49	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.53	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.23	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.50	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	4.32	< 0.80

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Lab Sample Number				1041418	1041419	1041420	1041421	1041422
Sample Reference				WS10	WS10	WS10	WS11	WS13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.225	0.30	0.30	0.50
Date Sampled				13/08/2018	13/08/2018	13/08/2018	09/08/2018	08/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	8.0	7.7
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	0.78	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	2.6	1.0
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	0.3	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	-	-	-	18	28
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	19	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	37	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	49	11
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	16	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	31	37
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	99	44
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	-	-	-	-

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041418	1041419	1041420	1041421	1041422
Sample Reference				WS10	WS10	WS10	WS11	WS13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.225	0.30	0.30	0.50
Date Sampled				13/08/2018	13/08/2018	13/08/2018	09/08/2018	08/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

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Lab Sample Number				1041423	1041424	1041425	1041426	1041427
Sample Reference				WS14	WS15	WS17	WS19	WS22
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.30	0.50	0.10	0.30
Date Sampled				10/08/2018	09/08/2018	09/08/2018	21/08/2018	17/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	20	8.6	11	14	8.1
Total mass of sample received	kg	0.001	NONE	0.33	0.44	0.40	0.48	0.47
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Chrysotile - Loose Fibres	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	6.9	7.5	7.4	7.3	7.5
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.063	0.15	0.073	0.026	0.019
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.034	0.012	0.0056	0.016	0.0081
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.95	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.78	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.46	6.6	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.12	1.8	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.1	15	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.0	13	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.57	7.7	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.58	5.5	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.80	7.3	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.43	3.7	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.75	7.4	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.43	3.3	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.08	0.92	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.49	3.7	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	6.80	77.4	< 0.80	< 0.80	< 0.80

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Lab Sample Number				1041423	1041424	1041425	1041426	1041427
Sample Reference				WS14	WS15	WS17	WS19	WS22
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.30	0.50	0.10	0.30
Date Sampled				10/08/2018	09/08/2018	09/08/2018	21/08/2018	17/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.4	5.9	6.9	7.8	13
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.88	0.73	1.4	0.73	0.76
Boron (water soluble)	mg/kg	0.2	MCERTS	3.3	2.0	1.1	1.6	1.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	25	19	37	23	25
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	20	37	24	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	27	20	14	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	35	18	16	23	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	18	35	17	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	36	38	43	32	35
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76	58	57	55	50
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	1.1	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	19	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	92	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	340	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	73	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	8.6	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	150	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	440	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	170	-	-	-

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Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041423	1041424	1041425	1041426	1041427
Sample Reference				WS14	WS15	WS17	WS19	WS22
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.30	0.50	0.10	0.30
Date Sampled				10/08/2018	09/08/2018	09/08/2018	21/08/2018	17/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-

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Lab Sample Number				1041428	1041429	1041430	1041431	1041432
Sample Reference				WS26	WS27	WS27	WS28	WS30
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.50	0.30	0.20
Date Sampled				14/08/2018	14/08/2018	14/08/2018	15/08/2018	21/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	36	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	6.0	5.7	13	9.9	8.6
Total mass of sample received	kg	0.001	NONE	0.43	0.47	0.52	0.47	0.43
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.3	7.9	8.2	11.3	7.3
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.18	0.11	0.096	0.13	0.033
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.029	0.033	0.0072	0.020	0.029
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.20	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.26	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	4.9	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	1.5	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	8.6	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	7.4	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	4.0	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.7	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	4.0	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.0	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	4.0	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	1.8	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.51	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.2	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	44.0	< 0.80

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041428	1041429	1041430	1041431	1041432
Sample Reference				WS26	WS27	WS27	WS28	WS30
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.50	0.30	0.20
Date Sampled				14/08/2018	14/08/2018	14/08/2018	15/08/2018	21/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.6	4.3	5.3	12	4.5
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.62	0.53	0.78	0.86	0.48
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	1.7	1.6	1.0	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.4	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	18	20	23	21	16
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	20	24	22	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	29	14	31	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	21	11	40	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	17	17	18	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	34	49	30	28	18
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	57	85	56	130	54
Monoaromatics								
Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	14	< 2.0	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	36	15	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	630	400	< 8.0	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	510	380	< 8.4	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	1.4	7.8	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	2.3	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	43	35	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	1300	1200	< 10	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	1900	1900	< 8.4	-	-

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Project / Site name: Hinckley NRFI
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Lab Sample Number				1041428	1041429	1041430	1041431	1041432
Sample Reference				WS26	WS27	WS27	WS28	WS30
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.50	0.30	0.20
Date Sampled				14/08/2018	14/08/2018	14/08/2018	15/08/2018	21/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-

Analytical Report Number: 18-99498

Project / Site name: Hinckley NRFI
Your Order No: POP023807

Lab Sample Number				1041433	1041434	1041435	1041436	1041437
Sample Reference				WS31	WS32	WS35	WS37	WS39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.10	0.10	0.20	0.10
Date Sampled				15/08/2018	21/08/2018	21/08/2018	20/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	9.2	7.0	11	8.7	12
Total mass of sample received	kg	0.001	NONE	0.36	0.41	0.41	0.31	0.39
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.7	7.2	7.2	7.1	7.4
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0086	0.033	0.028	0.023	0.022
Organic Matter	%	0.1	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.0052	0.016	0.021	0.015	0.017
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.20
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.20
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80

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Lab Sample Number				1041433	1041434	1041435	1041436	1041437
Sample Reference				WS31	WS32	WS35	WS37	WS39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.10	0.10	0.20	0.10
Date Sampled				15/08/2018	21/08/2018	21/08/2018	20/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.3	3.3	8.2	9.0	7.7
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.99	0.57	0.96	1.0	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	1.1	2.4	2.5	4.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.3	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	29	19	31	32	37
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	19	31	32	37
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	13	19	18	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	9.8	15	23	24	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	15	22	28	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	34	20	40	36	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	52	65	68	74	85
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-	< 8.4	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-	< 8.4	-	-	-

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Lab Sample Number				1041433	1041434	1041435	1041436	1041437
Sample Reference				WS31	WS32	WS35	WS37	WS39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.10	0.10	0.20	0.10
Date Sampled				15/08/2018	21/08/2018	21/08/2018	20/08/2018	14/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
N-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
P-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,4-dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-

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Lab Sample Number				1041438				
Sample Reference				WS41				
Sample Number				None Supplied				
Depth (m)				0.40				
Date Sampled				15/08/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	10				
Total mass of sample received	kg	0.001	NONE	0.42				
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.2				
Free Cyanide	mg/kg	1	MCERTS	< 1				
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.078				
Organic Matter	%	0.1	MCERTS	-				
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.022				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05				
Fluorene	mg/kg	0.05	MCERTS	< 0.05				
Phenanthrene	mg/kg	0.05	MCERTS	0.18				
Anthracene	mg/kg	0.05	MCERTS	< 0.05				
Fluoranthene	mg/kg	0.05	MCERTS	0.43				
Pyrene	mg/kg	0.05	MCERTS	0.41				
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05				
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05				
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.02				

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Lab Sample Number				1041438				
Sample Reference				WS41				
Sample Number				None Supplied				
Depth (m)				0.40				
Date Sampled				15/08/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.0				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.72				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3				
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2				
Chromium (III)	mg/kg	1	NONE	24				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	29				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	90				
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-				
Toluene	µg/kg	1	MCERTS	-				
Ethylbenzene	µg/kg	1	MCERTS	-				
p & m-xylene	µg/kg	1	MCERTS	-				
o-xylene	µg/kg	1	MCERTS	-				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-				
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	-				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-				
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	-				

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Lab Sample Number				1041438				
Sample Reference				WS41				
Sample Number				None Supplied				
Depth (m)				0.40				
Date Sampled				15/08/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-				
Chloroethane	µg/kg	1	NONE	-				
Bromomethane	µg/kg	1	ISO 17025	-				
Vinyl Chloride	µg/kg	1	NONE	-				
Trichlorofluoromethane	µg/kg	1	NONE	-				
1,1-dichloroethene	µg/kg	1	NONE	-				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-				
1,1-dichloroethane	µg/kg	1	MCERTS	-				
2,2-Dichloropropane	µg/kg	1	MCERTS	-				
Trichloromethane	µg/kg	1	MCERTS	-				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-				
1,2-dichloroethane	µg/kg	1	MCERTS	-				
1,1-Dichloropropene	µg/kg	1	MCERTS	-				
Trans-1,2-dichloroethene	µg/kg	1	NONE	-				
Benzene	µg/kg	1	MCERTS	-				
Tetrachloromethane	µg/kg	1	MCERTS	-				
1,2-dichloropropane	µg/kg	1	MCERTS	-				
Trichloroethene	µg/kg	1	MCERTS	-				
Dibromomethane	µg/kg	1	MCERTS	-				
Bromodichloromethane	µg/kg	1	MCERTS	-				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-				
Toluene	µg/kg	1	MCERTS	-				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-				
1,3-Dichloropropane	µg/kg	1	ISO 17025	-				
Dibromochloromethane	µg/kg	1	ISO 17025	-				
Tetrachloroethene	µg/kg	1	NONE	-				
1,2-Dibromoethane	µg/kg	1	ISO 17025	-				
Chlorobenzene	µg/kg	1	MCERTS	-				
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-				
Ethylbenzene	µg/kg	1	MCERTS	-				
p & m-xylene	µg/kg	1	MCERTS	-				
Styrene	µg/kg	1	MCERTS	-				
Tribromomethane	µg/kg	1	NONE	-				
o-xylene	µg/kg	1	MCERTS	-				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-				
Isopropylbenzene	µg/kg	1	MCERTS	-				
Bromobenzene	µg/kg	1	MCERTS	-				
N-Propylbenzene	µg/kg	1	ISO 17025	-				
2-Chlorotoluene	µg/kg	1	MCERTS	-				
4-Chlorotoluene	µg/kg	1	MCERTS	-				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-				
Tert-Butylbenzene	µg/kg	1	MCERTS	-				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-				
Sec-Butylbenzene	µg/kg	1	MCERTS	-				
1,3-dichlorobenzene	µg/kg	1	ISO 17025	-				
P-Isopropyltoluene	µg/kg	1	ISO 17025	-				
1,2-dichlorobenzene	µg/kg	1	MCERTS	-				
1,4-dichlorobenzene	µg/kg	1	MCERTS	-				
Butylbenzene	µg/kg	1	MCERTS	-				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-				
Hexachlorobutadiene	µg/kg	1	MCERTS	-				
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-				

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1041378	HP01	None Supplied	0.50	Brown clay and sand with gravel.
1041379	HP02	None Supplied	0.30	Brown loam and sand with gravel and brick.
1041380	HP03	None Supplied	0.50	Brown clay with gravel and brick.
1041381	HP04	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041382	HP06	None Supplied	0.40	Brown clay and sand with gravel.
1041383	HP06	None Supplied	0.80	Brown clay and sand with gravel.
1041384	HP08	None Supplied	0.30	Brown loam and sand with gravel and stones.
1041385	HP08	None Supplied	0.50	Brown clay and sand with gravel.
1041386	HP09	None Supplied	0.50	Brown clay and sand with gravel.
1041387	HP10	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1041388	HP10	None Supplied	0.50	Brown clay.
1041389	HP11	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041390	HP13	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
1041391	HP14	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041392	HP15	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041393	HP16	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041394	TP01	None Supplied	0.75	Brown loam and clay with gravel and vegetation.
1041395	TP01	None Supplied	0.15	Brown loam and sand with gravel and vegetation.
1041396	TP01	None Supplied	0.25	Brown loam and sand with gravel and vegetation.
1041397	TP01	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041398	TP04	None Supplied	0.10	Brown loam and sand with gravel and vegetation.
1041399	TP04	None Supplied	0.75	Brown loam and sand with gravel and vegetation.
1041400	TP04	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
1041401	TP04	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041402	TP04 (Combined	None Supplied	0.10-0.30	Brown loam and sand with gravel and vegetation.
1041403	TP08	None Supplied	0.15	Brown loam and sand with gravel and vegetation.
1041404	TP08	None Supplied	0.22	Brown loam and sand with gravel and vegetation.
1041405	TP08	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041406	TP12	None Supplied	0.10	Brown loam and clay with gravel and vegetation.
1041407	TP12	None Supplied	0.20	Brown loam and sand with gravel and vegetation.
1041408	TP12	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
1041409	TP12	None Supplied	0.40	Brown loam and clay with gravel and vegetation.
1041410	TP20	None Supplied	0.225	Brown loam and sand with gravel and vegetation.
1041411	TP20	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041412	TP20	None Supplied	0.75	Brown loam and clay with gravel and vegetation.
1041413	WS02	None Supplied	0.40	Brown loam and sand with gravel and vegetation.
1041414	WS04	None Supplied	0.50	Brown clay.
1041415	WS07	None Supplied	0.30	Brown clay and sand with gravel and vegetation.
1041416	WS08	None Supplied	0.40	Brown loam and sand with gravel and vegetation.
1041417	WS10	None Supplied	0.75	Brown loam and sand with gravel and vegetation.
1041418	WS10	None Supplied	0.15	Brown loam and sand with gravel and vegetation.
1041419	WS10	None Supplied	0.225	Brown loam and sand with gravel and vegetation.
1041420	WS10	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041421	WS11	None Supplied	0.30	Brown loam and sand with gravel and glass.
1041422	WS13	None Supplied	0.50	Brown loam and sand with gravel and vegetation.
1041423	WS14	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041424	WS15	None Supplied	0.30	Brown loam and sand with gravel and brick.
1041425	WS17	None Supplied	0.50	Brown loam and clay with gravel and vegetation.
1041426	WS19	None Supplied	0.10	Brown loam and clay with gravel and vegetation.
1041427	WS22	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041428	WS26	None Supplied	0.35	Brown loam and clay with gravel and stones.
1041429	WS27	None Supplied	0.20	Brown loam and sand with gravel.
1041430	WS27	None Supplied	0.50	Brown loam and clay with gravel and vegetation.
1041431	WS28	None Supplied	0.30	Brown loam and sand with gravel and vegetation.
1041432	WS30	None Supplied	0.20	Brown loam and sand with gravel and vegetation.
1041433	WS31	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
1041434	WS32	None Supplied	0.10	Brown loam and sand with gravel and brick.
1041435	WS35	None Supplied	0.10	Brown loam and sand with gravel and vegetation.
1041436	WS37	None Supplied	0.20	Brown loam and sand with gravel and vegetation.
1041437	WS39	None Supplied	0.10	Brown loam and clay with gravel and vegetation.
1041438	WS41	None Supplied	0.40	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 18-99498

Project / Site name: Hinckley NRFI

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L009-PL	D	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS

Analytical Report Number : 18-99498

Project / Site name: Hinckley NRFI

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
HP01		S	18-99498	1041378	c	Free cyanide in soil	L080-PL	c
HP01		S	18-99498	1041378	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
HP01		S	18-99498	1041378	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
HP01		S	18-99498	1041378	c	Cr (III) in soil	L080-PL	c
HP01		S	18-99498	1041378	c	Fraction of Organic Carbon in soil	L009-PL	c
HP01		S	18-99498	1041378	c	Monohydric phenols in soil	L080-PL	c
HP01		S	18-99498	1041378	c	Organic matter (Automated) in soil	L009-PL	c
HP01		S	18-99498	1041378	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP01		S	18-99498	1041378	c	TPH Chromatogram in Soil	L064-PL	c
HP01		S	18-99498	1041378	c	TPH in (Soil)	L076-PL	c
HP01		S	18-99498	1041378	c	TPHCWG (Soil)	L088/76-PL	c
HP01		S	18-99498	1041378	c	Volatile organic compounds in soil	L073B-PL	c
HP01		S	18-99498	1041378	c	pH in soil (automated)	L099-PL	c
HP02		S	18-99498	1041379	c	Free cyanide in soil	L080-PL	c
HP02		S	18-99498	1041379	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
HP02		S	18-99498	1041379	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
HP02		S	18-99498	1041379	c	Cr (III) in soil	L080-PL	c
HP02		S	18-99498	1041379	c	Fraction of Organic Carbon in soil	L009-PL	c
HP02		S	18-99498	1041379	c	Monohydric phenols in soil	L080-PL	c
HP02		S	18-99498	1041379	c	Organic matter (Automated) in soil	L009-PL	c
HP02		S	18-99498	1041379	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP02		S	18-99498	1041379	c	TPH Chromatogram in Soil	L064-PL	c
HP02		S	18-99498	1041379	c	TPH in (Soil)	L076-PL	c
HP02		S	18-99498	1041379	c	TPHCWG (Soil)	L088/76-PL	c
HP02		S	18-99498	1041379	c	pH in soil (automated)	L099-PL	c
HP03		S	18-99498	1041380	c	Free cyanide in soil	L080-PL	c
HP03		S	18-99498	1041380	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
HP03		S	18-99498	1041380	c	Cr (III) in soil	L080-PL	c
HP03		S	18-99498	1041380	c	Fraction of Organic Carbon in soil	L009-PL	c
HP03		S	18-99498	1041380	c	Monohydric phenols in soil	L080-PL	c
HP03		S	18-99498	1041380	c	Organic matter (Automated) in soil	L009-PL	c
HP03		S	18-99498	1041380	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP03		S	18-99498	1041380	c	pH in soil (automated)	L099-PL	c
HP04		S	18-99498	1041381	c	Free cyanide in soil	L080-PL	c
HP04		S	18-99498	1041381	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
HP04		S	18-99498	1041381	c	Cr (III) in soil	L080-PL	c
HP04		S	18-99498	1041381	c	Fraction of Organic Carbon in soil	L009-PL	c
HP04		S	18-99498	1041381	c	Monohydric phenols in soil	L080-PL	c
HP04		S	18-99498	1041381	c	Organic matter (Automated) in soil	L009-PL	c
HP04		S	18-99498	1041381	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP04		S	18-99498	1041381	c	pH in soil (automated)	L099-PL	c
HP06		S	18-99498	1041382	c	Free cyanide in soil	L080-PL	c
HP06		S	18-99498	1041382	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
HP06		S	18-99498	1041382	c	Monohydric phenols in soil	L080-PL	c
HP06		S	18-99498	1041382	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP06		S	18-99498	1041382	c	TPH Chromatogram in Soil	L064-PL	c
HP06		S	18-99498	1041382	c	TPH in (Soil)	L076-PL	c
HP06		S	18-99498	1041382	c	TPHCWG (Soil)	L088/76-PL	c
HP06		S	18-99498	1041382	c	Volatile organic compounds in soil	L073B-PL	c
HP06		S	18-99498	1041383	c	Free cyanide in soil	L080-PL	c
HP06		S	18-99498	1041383	c	Monohydric phenols in soil	L080-PL	c

HP06		S	18-99498	1041383	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP08		S	18-99498	1041384	c	Free cyanide in soil	L080-PL	c
HP08		S	18-99498	1041384	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
HP08		S	18-99498	1041384	c	Monohydric phenols in soil	L080-PL	c
HP08		S	18-99498	1041384	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP08		S	18-99498	1041384	c	TPH Chromatogram in Soil	L064-PL	c
HP08		S	18-99498	1041384	c	TPH in (Soil)	L076-PL	c
HP08		S	18-99498	1041384	c	TPHCWG (Soil)	L088/76-PL	c
HP08		S	18-99498	1041384	c	Volatile organic compounds in soil	L073B-PL	c
HP08		S	18-99498	1041385	c	Free cyanide in soil	L080-PL	c
HP08		S	18-99498	1041385	c	Monohydric phenols in soil	L080-PL	c
HP08		S	18-99498	1041385	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP09		S	18-99498	1041386	c	Free cyanide in soil	L080-PL	c
HP09		S	18-99498	1041386	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
HP09		S	18-99498	1041386	c	Cr (III) in soil	L080-PL	c
HP09		S	18-99498	1041386	c	Fraction of Organic Carbon in soil	L009-PL	c
HP09		S	18-99498	1041386	c	Monohydric phenols in soil	L080-PL	c
HP09		S	18-99498	1041386	c	Organic matter (Automated) in soil	L009-PL	c
HP09		S	18-99498	1041386	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP09		S	18-99498	1041386	c	pH in soil (automated)	L099-PL	c
HP10		S	18-99498	1041387	c	Free cyanide in soil	L080-PL	c
HP10		S	18-99498	1041387	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
HP10		S	18-99498	1041387	c	Monohydric phenols in soil	L080-PL	c
HP10		S	18-99498	1041387	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP10		S	18-99498	1041387	c	TPH Chromatogram in Soil	L064-PL	c
HP10		S	18-99498	1041387	c	TPH in (Soil)	L076-PL	c
HP10		S	18-99498	1041387	c	TPHCWG (Soil)	L088/76-PL	c
HP10		S	18-99498	1041387	c	Volatile organic compounds in soil	L073B-PL	c
HP10		S	18-99498	1041388	c	Free cyanide in soil	L080-PL	c
HP10		S	18-99498	1041388	c	Monohydric phenols in soil	L080-PL	c
HP10		S	18-99498	1041388	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP11		S	18-99498	1041389	c	Free cyanide in soil	L080-PL	c
HP11		S	18-99498	1041389	c	Monohydric phenols in soil	L080-PL	c
HP11		S	18-99498	1041389	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP13		S	18-99498	1041390	c	Free cyanide in soil	L080-PL	c
HP13		S	18-99498	1041390	c	Monohydric phenols in soil	L080-PL	c
HP13		S	18-99498	1041390	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP14		S	18-99498	1041391	c	Free cyanide in soil	L080-PL	c
HP14		S	18-99498	1041391	c	Monohydric phenols in soil	L080-PL	c
HP14		S	18-99498	1041391	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP15		S	18-99498	1041392	c	Free cyanide in soil	L080-PL	c
HP15		S	18-99498	1041392	c	Monohydric phenols in soil	L080-PL	c
HP15		S	18-99498	1041392	c	Speciated EPA-16 PAHs in soil	L064-PL	c
HP16		S	18-99498	1041393	c	Free cyanide in soil	L080-PL	c
HP16		S	18-99498	1041393	c	Monohydric phenols in soil	L080-PL	c
HP16		S	18-99498	1041393	c	Speciated EPA-16 PAHs in soil	L064-PL	c
TP01		S	18-99498	1041394	c	Free cyanide in soil	L080-PL	c
TP04 (Combined)		S	18-99498	1041402	c	Free cyanide in soil	L080-PL	c
TP12		S	18-99498	1041406	bc	Free cyanide in soil	L080-PL	c
TP12		S	18-99498	1041406	bc	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	bc
TP12		S	18-99498	1041406	bc	TPHCWG (Soil)	L088/76-PL	b
TP12		S	18-99498	1041407	c	Free cyanide in soil	L080-PL	c
TP20		S	18-99498	1041412	c	Free cyanide in soil	L080-PL	c
WS02		S	18-99498	1041413	c	Free cyanide in soil	L080-PL	c

WS02		S	18-99498	1041413	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS02		S	18-99498	1041413	c	Monohydric phenols in soil	L080-PL	c
WS02		S	18-99498	1041413	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS02		S	18-99498	1041413	c	TPH Chromatogram in Soil	L064-PL	c
WS02		S	18-99498	1041413	c	TPH in (Soil)	L076-PL	c
WS02		S	18-99498	1041413	c	TPHCWG (Soil)	L088/76-PL	c
WS04		S	18-99498	1041414	c	Free cyanide in soil	L080-PL	c
WS04		S	18-99498	1041414	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS04		S	18-99498	1041414	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS04		S	18-99498	1041414	c	Cr (III) in soil	L080-PL	c
WS04		S	18-99498	1041414	c	Fraction of Organic Carbon in soil	L009-PL	c
WS04		S	18-99498	1041414	c	Monohydric phenols in soil	L080-PL	c
WS04		S	18-99498	1041414	c	Organic matter (Automated) in soil	L009-PL	c
WS04		S	18-99498	1041414	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS04		S	18-99498	1041414	c	TPH Chromatogram in Soil	L064-PL	c
WS04		S	18-99498	1041414	c	TPH in (Soil)	L076-PL	c
WS04		S	18-99498	1041414	c	TPHCWG (Soil)	L088/76-PL	c
WS04		S	18-99498	1041414	c	pH in soil (automated)	L099-PL	c
WS07		S	18-99498	1041415	c	Free cyanide in soil	L080-PL	c
WS07		S	18-99498	1041415	c	Monohydric phenols in soil	L080-PL	c
WS07		S	18-99498	1041415	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS08		S	18-99498	1041416	c	Free cyanide in soil	L080-PL	c
WS08		S	18-99498	1041416	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS08		S	18-99498	1041416	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS08		S	18-99498	1041416	c	Cr (III) in soil	L080-PL	c
WS08		S	18-99498	1041416	c	Fraction of Organic Carbon in soil	L009-PL	c
WS08		S	18-99498	1041416	c	Monohydric phenols in soil	L080-PL	c
WS08		S	18-99498	1041416	c	Organic matter (Automated) in soil	L009-PL	c
WS08		S	18-99498	1041416	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS08		S	18-99498	1041416	c	TPH Chromatogram in Soil	L064-PL	c
WS08		S	18-99498	1041416	c	TPH in (Soil)	L076-PL	c
WS08		S	18-99498	1041416	c	TPHCWG (Soil)	L088/76-PL	c
WS08		S	18-99498	1041416	c	pH in soil (automated)	L099-PL	c
WS10		S	18-99498	1041417	c	Free cyanide in soil	L080-PL	c
WS10		S	18-99498	1041417	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS10		S	18-99498	1041417	c	Monohydric phenols in soil	L080-PL	c
WS10		S	18-99498	1041417	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS10		S	18-99498	1041417	c	TPH Chromatogram in Soil	L064-PL	c
WS10		S	18-99498	1041417	c	TPH in (Soil)	L076-PL	c
WS10		S	18-99498	1041417	c	TPHCWG (Soil)	L088/76-PL	c
WS11		S	18-99498	1041421	c	Free cyanide in soil	L080-PL	c
WS11		S	18-99498	1041421	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS11		S	18-99498	1041421	c	Cr (III) in soil	L080-PL	c
WS11		S	18-99498	1041421	c	Fraction of Organic Carbon in soil	L009-PL	c
WS11		S	18-99498	1041421	c	Monohydric phenols in soil	L080-PL	c
WS11		S	18-99498	1041421	c	Organic matter (Automated) in soil	L009-PL	c
WS11		S	18-99498	1041421	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS11		S	18-99498	1041421	c	pH in soil (automated)	L099-PL	c
WS13		S	18-99498	1041422	c	Free cyanide in soil	L080-PL	c
WS13		S	18-99498	1041422	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS13		S	18-99498	1041422	c	Cr (III) in soil	L080-PL	c
WS13		S	18-99498	1041422	c	Fraction of Organic Carbon in soil	L009-PL	c
WS13		S	18-99498	1041422	c	Monohydric phenols in soil	L080-PL	c
WS13		S	18-99498	1041422	c	Organic matter (Automated) in soil	L009-PL	c

WS13		S	18-99498	1041422	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS13		S	18-99498	1041422	c	pH in soil (automated)	L099-PL	c
WS14		S	18-99498	1041423	c	Free cyanide in soil	L080-PL	c
WS14		S	18-99498	1041423	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS14		S	18-99498	1041423	c	Cr (III) in soil	L080-PL	c
WS14		S	18-99498	1041423	c	Fraction of Organic Carbon in soil	L009-PL	c
WS14		S	18-99498	1041423	c	Monohydric phenols in soil	L080-PL	c
WS14		S	18-99498	1041423	c	Organic matter (Automated) in soil	L009-PL	c
WS14		S	18-99498	1041423	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS14		S	18-99498	1041423	c	pH in soil (automated)	L099-PL	c
WS15		S	18-99498	1041424	c	Free cyanide in soil	L080-PL	c
WS15		S	18-99498	1041424	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS15		S	18-99498	1041424	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS15		S	18-99498	1041424	c	Cr (III) in soil	L080-PL	c
WS15		S	18-99498	1041424	c	Fraction of Organic Carbon in soil	L009-PL	c
WS15		S	18-99498	1041424	c	Monohydric phenols in soil	L080-PL	c
WS15		S	18-99498	1041424	c	Organic matter (Automated) in soil	L009-PL	c
WS15		S	18-99498	1041424	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS15		S	18-99498	1041424	c	TPH Chromatogram in Soil	L064-PL	c
WS15		S	18-99498	1041424	c	TPH in (Soil)	L076-PL	c
WS15		S	18-99498	1041424	c	TPHCWG (Soil)	L088/76-PL	c
WS15		S	18-99498	1041424	c	Volatile organic compounds in soil	L073B-PL	c
WS15		S	18-99498	1041424	c	pH in soil (automated)	L099-PL	c
WS17		S	18-99498	1041425	c	Free cyanide in soil	L080-PL	c
WS17		S	18-99498	1041425	c	Hexavalent chromium in soil (Lower Level)	L080-PL	c
WS17		S	18-99498	1041425	c	Cr (III) in soil	L080-PL	c
WS17		S	18-99498	1041425	c	Fraction of Organic Carbon in soil	L009-PL	c
WS17		S	18-99498	1041425	c	Monohydric phenols in soil	L080-PL	c
WS17		S	18-99498	1041425	c	Organic matter (Automated) in soil	L009-PL	c
WS17		S	18-99498	1041425	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS17		S	18-99498	1041425	c	pH in soil (automated)	L099-PL	c
WS19		S	18-99498	1041426	c	Free cyanide in soil	L080-PL	c
WS22		S	18-99498	1041427	c	Free cyanide in soil	L080-PL	c
WS22		S	18-99498	1041427	c	Monohydric phenols in soil	L080-PL	c
WS22		S	18-99498	1041427	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS26		S	18-99498	1041428	c	Free cyanide in soil	L080-PL	c
WS26		S	18-99498	1041428	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS26		S	18-99498	1041428	c	Monohydric phenols in soil	L080-PL	c
WS26		S	18-99498	1041428	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS26		S	18-99498	1041428	c	TPH Chromatogram in Soil	L064-PL	c
WS26		S	18-99498	1041428	c	TPH in (Soil)	L076-PL	c
WS26		S	18-99498	1041428	c	TPHCWG (Soil)	L088/76-PL	c
WS27		S	18-99498	1041429	c	Free cyanide in soil	L080-PL	c
WS27		S	18-99498	1041429	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS27		S	18-99498	1041429	c	Monohydric phenols in soil	L080-PL	c
WS27		S	18-99498	1041429	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS27		S	18-99498	1041429	c	TPH Chromatogram in Soil	L064-PL	c
WS27		S	18-99498	1041429	c	TPH in (Soil)	L076-PL	c
WS27		S	18-99498	1041429	c	TPHCWG (Soil)	L088/76-PL	c
WS27		S	18-99498	1041429	c	Volatile organic compounds in soil	L073B-PL	c
WS27		S	18-99498	1041430	c	Free cyanide in soil	L080-PL	c
WS27		S	18-99498	1041430	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS27		S	18-99498	1041430	c	Monohydric phenols in soil	L080-PL	c
WS27		S	18-99498	1041430	c	Speciated EPA-16 PAHs in soil	L064-PL	c

WS27		S	18-99498	1041430	c	TPH Chromatogram in Soil	L064-PL	c
WS27		S	18-99498	1041430	c	TPH in (Soil)	L076-PL	c
WS27		S	18-99498	1041430	c	TPHCWG (Soil)	L088/76-PL	c
WS27		S	18-99498	1041430	c	Volatile organic compounds in soil	L073B-PL	c
WS28		S	18-99498	1041431	c	Free cyanide in soil	L080-PL	c
WS28		S	18-99498	1041431	c	Monohydric phenols in soil	L080-PL	c
WS28		S	18-99498	1041431	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS30		S	18-99498	1041432	c	Free cyanide in soil	L080-PL	c
WS31		S	18-99498	1041433	c	Free cyanide in soil	L080-PL	c
WS31		S	18-99498	1041433	c	Monohydric phenols in soil	L080-PL	c
WS31		S	18-99498	1041433	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS32		S	18-99498	1041434	c	Free cyanide in soil	L080-PL	c
WS32		S	18-99498	1041434	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
WS32		S	18-99498	1041434	c	Volatile organic compounds in soil	L073B-PL	c
WS35		S	18-99498	1041435	c	Free cyanide in soil	L080-PL	c
WS37		S	18-99498	1041436	c	Free cyanide in soil	L080-PL	c
WS39		S	18-99498	1041437	c	Free cyanide in soil	L080-PL	c
WS39		S	18-99498	1041437	c	Monohydric phenols in soil	L080-PL	c
WS39		S	18-99498	1041437	c	Speciated EPA-16 PAHs in soil	L064-PL	c
WS41		S	18-99498	1041438	c	Free cyanide in soil	L080-PL	c
WS41		S	18-99498	1041438	c	Monohydric phenols in soil	L080-PL	c
WS41		S	18-99498	1041438	c	Speciated EPA-16 PAHs in soil	L064-PL	c

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Analytical Report Number : 18-13764

Project / Site name:	SRFI, Hinckley	**Samples received on:**	10/10/2018
Your job number:	C 0770 C	**Samples instructed on:**	10/10/2018
Your order number:		**Analysis completed by:**	17/10/2018
Report Issue Number:	1	**Report issued on:**	17/10/2018
Samples Analysed:	6 water samples		

Signed [redacted]

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 18-13764

Project / Site name: SRFI, Hinckley

Lab Sample Number				1065491	1065492	1065493	1065494	1065495
Sample Reference				WS 11	WS 13	WS 26	WS 30	WS 39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/10/2018	09/10/2018	09/10/2018	09/10/2018	09/10/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.3	7.6	7.2	7.5	7.4
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	1700	1200	1600	810	1600
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4	µg/l	45	ISO 17025	264000	142000	377000	70700	898000
Sulphate as SO_4	mg/l	0.045	ISO 17025	264	142	377	70.7	898
Chloride	mg/l	0.15	ISO 17025	120	25	120	22	26
Fluoride	µg/l	50	ISO 17025	890	1200	410	520	510
Ammonium as NH_4	µg/l	15	ISO 17025	110	140	140	190	120
Ammonium as NH_4	mg/l	0.015	ISO 17025	0.11	0.14	0.14	0.19	0.12
Nitrate as N	mg/l	0.01	ISO 17025	0.29	1.23	1.24	2.90	0.35
Nitrate as NO_3	mg/l	0.05	ISO 17025	1.28	5.44	5.49	12.8	1.55
Nitrite as N	µg/l	1	ISO 17025	13	6.0	25	47	12
Nitrite as NO_2	µg/l	5	ISO 17025	43	20	82	160	41
Hardness - Total	mgCaCO3/l	1	ISO 17025	1060	705	951	499	996
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Total Phenols								
Total Phenols	µg/l	0.5	NONE	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(ghi)perylene	µg/l	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PAH Sums								
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.002	NONE	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.022	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analytical Report Number: 18-13764

Project / Site name: SRFI, Hinckley

Lab Sample Number				1065491	1065492	1065493	1065494	1065495
Sample Reference				WS 11	WS 13	WS 26	WS 30	WS 39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/10/2018	09/10/2018	09/10/2018	09/10/2018	09/10/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Zinc (total)	µg/l	0.5	ISO 17025	62	640	31	140	26
Aluminium (dissolved)	mg/l	0.001	ISO 17025	< 0.0010	0.0400	0.0212	0.0181	< 0.0010
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.4	3.2	0.7	0.6	1.0
Arsenic (dissolved)	µg/l	0.15	ISO 17025	1.42	2.24	2.81	5.33	6.14
Barium (dissolved)	µg/l	0.06	ISO 17025	49	49	280	520	110
Boron (dissolved)	µg/l	10	ISO 17025	140	250	72	43	67
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	0.03	< 0.02	< 0.02
Calcium (dissolved)	mg/l	0.012	ISO 17025	120	50	170	72	160
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	1	NONE	< 1.0	< 1.0	5.4	3.6	< 1.0
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	0.3	5.4	3.6	< 0.2
Cobalt (dissolved)	µg/l	0.2	ISO 17025	2.9	0.8	1.8	0.3	0.5
Copper (dissolved)	µg/l	0.5	ISO 17025	3.5	3.5	19	5.7	1.8
Iron (dissolved)	mg/l	0.004	ISO 17025	0.45	0.043	0.61	0.016	0.010
Lead (dissolved)	µg/l	0.2	ISO 17025	0.3	0.6	0.6	< 0.2	< 0.2
Magnesium (dissolved)	mg/l	0.005	ISO 17025	190	140	130	78	150
Manganese (dissolved)	µg/l	0.05	ISO 17025	490	66	320	66	190
Mercury (dissolved) CV-AFS	ug/l	0.005	ISO 17025	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	2.0	6.0	20	3.1	2.2
Nickel (dissolved)	µg/l	0.5	ISO 17025	3.1	2.7	6.7	1.1	1.2
Selenium (dissolved)	µg/l	0.6	ISO 17025	6.8	3.3	5.1	2.6	0.9
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sodium (dissolved)	mg/l	0.01	ISO 17025	77	52	69	13	14
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.3	1.4	3.1	23	3.0
Zinc (dissolved)	µg/l	0.5	ISO 17025	3.1	60	3.0	2.4	2.5
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
Toluene	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
p & m-xylene	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
o-xylene	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aliphatic >C16 - C35	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aliphatic >C35 - C44	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	-	< 1.0	-	-
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aromatic >C35 - C44	µg/l	10	NONE	< 10	-	< 10	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 18-13764

Project / Site name: SRFI, Hinckley

Lab Sample Number				1065496				
Sample Reference				WS 40				
Sample Number				None Supplied				
Depth (m)				None Supplied				
Date Sampled				09/10/2018				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.5				
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	850				
Total Cyanide	µg/l	10	ISO 17025	< 10				
Free Cyanide	µg/l	10	ISO 17025	< 10				
Sulphate as SO_4	µg/l	45	ISO 17025	53000				
Sulphate as SO_4	mg/l	0.045	ISO 17025	53.0				
Chloride	mg/l	0.15	ISO 17025	48				
Fluoride	µg/l	50	ISO 17025	510				
Ammonium as NH_4	µg/l	15	ISO 17025	83				
Ammonium as NH_4	mg/l	0.015	ISO 17025	0.083				
Nitrate as N	mg/l	0.01	ISO 17025	0.18				
Nitrate as NO_3	mg/l	0.05	ISO 17025	0.80				
Nitrite as N	µg/l	1	ISO 17025	16				
Nitrite as NO_2	µg/l	5	ISO 17025	54				
Hardness - Total	mgCaCO3/l	1	ISO 17025	501				
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002				
Total Phenols								
Total Phenols	µg/l	0.5	NONE	< 0.50				
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.001	NONE	< 0.001				
Benzo(ghi)perylene	µg/l	0.001	NONE	< 0.001				
PAH Sums								
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.02				
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.002	NONE	< 0.002				
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.022	NONE	< 0.02				

Analytical Report Number: 18-13764

Project / Site name: SRFI, Hinckley

Lab Sample Number				1065496				
Sample Reference				WS 40				
Sample Number				None Supplied				
Depth (m)				None Supplied				
Date Sampled				09/10/2018				
Time Taken				None Supplied				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Zinc (total)	µg/l	0.5	ISO 17025	130				
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0069				
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.7				
Arsenic (dissolved)	µg/l	0.15	ISO 17025	5.22				
Barium (dissolved)	µg/l	0.06	ISO 17025	330				
Boron (dissolved)	µg/l	10	ISO 17025	55				
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02				
Calcium (dissolved)	mg/l	0.012	ISO 17025	76				
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0				
Chromium (III)	µg/l	1	NONE	< 1.0				
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Cobalt (dissolved)	µg/l	0.2	ISO 17025	1.6				
Copper (dissolved)	µg/l	0.5	ISO 17025	2.5				
Iron (dissolved)	mg/l	0.004	ISO 17025	0.011				
Lead (dissolved)	µg/l	0.2	ISO 17025	0.3				
Magnesium (dissolved)	mg/l	0.005	ISO 17025	75				
Manganese (dissolved)	µg/l	0.05	ISO 17025	220				
Mercury (dissolved) CV-AFS	ug/l	0.005	ISO 17025	< 0.0050				
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	4.6				
Nickel (dissolved)	µg/l	0.5	ISO 17025	2.9				
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.4				
Silver (dissolved)	µg/l	0.05	NONE	< 0.05				
Sodium (dissolved)	mg/l	0.01	ISO 17025	16				
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20				
Vanadium (dissolved)	µg/l	0.2	ISO 17025	8.4				
Zinc (dissolved)	µg/l	0.5	ISO 17025	5.6				
Monoaromatics								
Benzene	µg/l	1	ISO 17025	-				
Toluene	µg/l	1	ISO 17025	-				
Ethylbenzene	µg/l	1	ISO 17025	-				
p & m-xylene	µg/l	1	ISO 17025	-				
o-xylene	µg/l	1	ISO 17025	-				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	-				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	-				
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	-				
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	-				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	-				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	-				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	-				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	-				
TPH-CWG - Aliphatic >C16 - C35	µg/l	10	NONE	-				
TPH-CWG - Aliphatic >C35 - C44	µg/l	10	NONE	-				
TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	-				
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	-				
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	-				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	-				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	-				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	-				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	-				
TPH-CWG - Aromatic >C35 - C44	µg/l	10	NONE	-				

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 18-13764

Project / Site name: SRFI, Hinckley

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH4 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Ammonium as NH4 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Bromate in Water	Determination of bromate in waters based on ion chromatography. Accredited matrices GW, PW, SW.	In house method based on Standard Methods for the Analysis of Water and Waste Water, method 4500	L008-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
Cr (III) in water	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Electrical conductivity at 20oC of water	Determination of electrical conductivity in water by electrometric measurement. Accredited Matrices SW, GW, PW	In-house method	L031-PL	W	ISO 17025
Fluoride in water	Determination of fluoride in water by 1:1 ratio with a buffer solution followed by Ion Selective Electrode. Accredited matrices: SW, PW, GW.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Mercury Low Level (Dissolved) in Water	Dissolved mercury in water by CV-AFS, accredited matrices GW, SW, and PW.	In-house method based on USEPA method 1631	L085-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite as N in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025

Analytical Report Number : 18-13764

Project / Site name: SRFI, Hinckley

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	W	ISO 17025
Phenols, speciated, in water, by GCMS	Determination of speciated phenols in water by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Speciated EPA-16 PAHs in water (LOW LEVEL Dets)	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270 (low level)	L102B-PL	W	NONE
Specific PAH sums in water	Determination of PAH compounds in water by extraction in hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Statistical Analysis

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	BC	BC	TM	TS	TS
									Location & Depth	TP01	WS02	WS04	TP04	WS08
										0.75	0.40	0.50	0.10-0.30	0.40
Arsenic	1	5	4.4	8.6	0	640	10.13527	POTENTIALLY SUITABLE FOR USE		8.6	4.4	8.2	5	4.9
Beryllium	0.06	5	0.62	1.5	0	390	1.6450988	POTENTIALLY SUITABLE FOR USE		1.1	0.96	1.5	0.93	0.62
Boron	0.2	5	0.8	2	0	190000	2.3703947	POTENTIALLY SUITABLE FOR USE		1.6	1.7	0.8	1.2	2
Cadmium	0.2	5	0.2	0.2	0	220	0.2	POTENTIALLY SUITABLE FOR USE		0.2	0.2	0.2	0.2	0.2
Chromium (III)	1	5	22	40	0	8400	42.523528	POTENTIALLY SUITABLE FOR USE		31	27	40	27	22
Chromium (VI)	1.2	5	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE		1.2	1.2	1.2	1.2	1.2
Copper	1	5	15	30	0	69000	34.545555	POTENTIALLY SUITABLE FOR USE		25	17	30	25	15
Lead	2	5	16	34	0	2330	36.909034	POTENTIALLY SUITABLE FOR USE		34	16	25	20	24
Mercury, inorganic	0.3	5	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE		0.3	0.3	0.3	0.3	0.3
Nickel	2	5	13	41	0	1700	43.773009	POTENTIALLY SUITABLE FOR USE		21	22	41	18	13
Selenium	1	5	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1
Vanadium	1	5	29	44	0	9000	48.909034	POTENTIALLY SUITABLE FOR USE		42	32	44	32	29
Zinc	2	5	48	75	0	670000	85.941275	POTENTIALLY SUITABLE FOR USE		75	58	75	48	57
Cyanide (free)	1	5	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1
Phenol (total)	2	5	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1
Acenaphthene	0.05	5	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Acenaphthylene	0.05	5	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Anthracene	0.05	5	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Benz(a)anthracene	0.05	5	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Benzo(a)pyrene	0.05	5	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Benzo(b)fluoranthene	0.05	5	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Benzo(ghi)perylene	0.05	5	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Benzo(k)fluoranthene	0.05	5	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Chrysene	0.05	5	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Dibenz(a,h)anthracene	0.05	5	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Fluoranthene	0.05	5	0.05	0.27	0	23000	0.28584	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.27
Fluorene	0.05	5	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Indeno(1,2,3,cd)pyrene	0.05	5	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Naphthalene	0.05	5	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Phenanthrene	0.05	5	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05
Pyrene	0.05	5	0.05	0.23	0	54000	0.24296	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.23
Asbestos identified	Y/N									N	N	N	N	N
FOC (dimensionless)	0.01454	**(mean)**								0.011	0.019	0.016	0.017	0.0097
SOM (calculated)	2.51%	**(mean)**								1.90%	3.28%	2.76%	2.93%	1.67%
pH (su)	7.2	**(mean)**								7.5	7.1	6.9	7.3	7.4

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 1 - Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**
Arsenic	1	5	4.4	8.6	0	640	10.13527	POTENTIALLY SUITABLE FOR USE
Beryllium	0.06	5	0.62	1.5	0	390	1.6450988	POTENTIALLY SUITABLE FOR USE
Boron	0.2	5	0.8	2	0	190000	2.3703947	POTENTIALLY SUITABLE FOR USE
Cadmium	0.2	5	0.2	0.2	0	220	0.2	POTENTIALLY SUITABLE FOR USE
Chromium (III)	1	5	22	40	0	8400	42.523528	POTENTIALLY SUITABLE FOR USE
Chromium (VI)	1.2	5	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE
Copper	1	5	15	30	0	69000	34.545555	POTENTIALLY SUITABLE FOR USE
Lead	2	5	16	34	0	2330	36.909034	POTENTIALLY SUITABLE FOR USE
Mercury, inorganic	0.3	5	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE
Nickel	2	5	13	41	0	1700	43.773009	POTENTIALLY SUITABLE FOR USE
Selenium	1	5	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE
Vanadium	1	5	29	44	0	9000	48.909034	POTENTIALLY SUITABLE FOR USE
Zinc	2	5	48	75	0	670000	85.941275	POTENTIALLY SUITABLE FOR USE
Cyanide (free)	1	5	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE
Phenol (total)	2	5	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE
Acenaphthene	0.05	5	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Acenaphthylene	0.05	5	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Anthracene	0.05	5	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE
Benz(a)anthracene	0.05	5	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(a)pyrene	0.05	5	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(b)fluoranthene	0.05	5	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(ghi)perylene	0.05	5	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(k)fluoranthene	0.05	5	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE
Chrysene	0.05	5	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE
Dibenz(a,h)anthracene	0.05	5	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE
Fluoranthene	0.05	5	0.05	0.27	0	23000	0.28584	POTENTIALLY SUITABLE FOR USE
Fluorene	0.05	5	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE
Indeno(1,2,3,cd)pyrene	0.05	5	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE
Naphthalene	0.05	5	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE
Phenanthrene	0.05	5	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE
Pyrene	0.05	5	0.05	0.23	0	54000	0.24296	POTENTIALLY SUITABLE FOR USE
Asbestos identified	Y/N							
FOC (dimensionless)	0.01454	**(mean)**						
SOM (calculated)	2.51%	**(mean)**						
pH (su)	7.2	**(mean)**						

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 1 - Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG	MG	MG	MG	MG	MG
									Location & Depth	HP01	HP02	HP03	HP04	WS11	WS15
										0.5	0.3	0.5	0.3	0.3	0.3
Arsenic	1	6	5.2	9.5	0	640	9.991522	POTENTIALLY SUITABLE FOR USE		7.9	6.5	9.5	5.2	8	5.9
Beryllium	0.06	6	0.63	1.4	0	390	1.5626945	POTENTIALLY SUITABLE FOR USE		1.1	1.4	1.3	0.63	0.78	0.73
Boron	0.2	6	0.5	8.2	0	190000	7.6579679	POTENTIALLY SUITABLE FOR USE		0.5	1.7	8.2	1.4	2.6	2
Cadmium	0.2	6	0.2	0.4	0	220	0.3989224	POTENTIALLY SUITABLE FOR USE		0.2	0.4	0.2	0.2	0.3	0.2
Chromium (III)	1	6	17	86	0	8400	80.133696	POTENTIALLY SUITABLE FOR USE		30	86	27	17	18	19
Chromium (VI)	1.2	6	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE		1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	6	24	44	0	69000	44.936002	POTENTIALLY SUITABLE FOR USE		25	44	27	24	37	27
Lead	2	6	12	300	0	2330	273.39222	POTENTIALLY SUITABLE FOR USE		12	300	51	21	49	18
Mercury, inorganic	0.3	6	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE		0.3	0.3	0.3	0.3	0.3	0.3
Nickel	2	6	13	55	0	1700	53.497449	POTENTIALLY SUITABLE FOR USE		27	55	28	13	16	18
Selenium	1	6	1	1.7	0	13000	1.650293	POTENTIALLY SUITABLE FOR USE		1	1.7	1.2	1	1	1
Vanadium	1	6	25	47	0	9000	48.616283	POTENTIALLY SUITABLE FOR USE		35	47	37	25	31	38
Zinc	2	6	48	260	0	670000	244.15412	POTENTIALLY SUITABLE FOR USE		48	260	86	52	99	58
Cyanide (free)	1	6	1	1.01	0	16000	1.0089333	POTENTIALLY SUITABLE FOR USE		1.01	1	1	1	1	1
Phenol (total)	2	6	1	1.01	0	1500	1.0089333	POTENTIALLY SUITABLE FOR USE		1.01	1	1	1	1	1
Acenaphthene	0.05	6	0.05	0.95	0	97000	0.854	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.95
Acenaphthylene	0.05	6	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05
Anthracene	0.05	6	0.05	1.8	0	540000	1.6133333	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	1.8
Benz(a)anthracene	0.05	6	0.05	7.7	0	91	3.9811442	POTENTIALLY SUITABLE FOR USE		0.05	0.47	0.05	0.05	0.45	7.7
Benzo(a)pyrene	0.05	6	0.05	7.4	0	14	6.6628344	POTENTIALLY SUITABLE FOR USE		0.05	0.7	0.05	0.05	0.5	7.4
Benzo(b)fluoranthene	0.05	6	0.05	7.3	0	98	6.5833382	POTENTIALLY SUITABLE FOR USE		0.05	0.8	0.05	0.05	0.53	7.3
Benzo(ghi)perylene	0.05	6	0.05	3.7	0	640	3.3457809	POTENTIALLY SUITABLE FOR USE		0.05	0.55	0.05	0.05	0.05	3.7
Benzo(k)fluoranthene	0.05	6	0.05	3.7	0	140	3.3235687	POTENTIALLY SUITABLE FOR USE		0.05	0.24	0.05	0.05	0.23	3.7
Chrysene	0.05	6	0.05	5.5	0	140	4.9662512	POTENTIALLY SUITABLE FOR USE		0.05	0.62	0.05	0.05	0.49	5.5
Dibenz(a,h)anthracene	0.05	6	0.05	0.92	0	12	0.8272	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.92
Fluoranthene	0.05	6	0.05	15	0	23000	13.463917	POTENTIALLY SUITABLE FOR USE		0.05	0.88	0.29	0.05	0.81	15
Fluorene	0.05	6	0.05	0.78	0	68000	0.7021333	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.78
Indeno(1,2,3,cd)pyrene	0.05	6	0.05	3.3	0	59	2.9772543	POTENTIALLY SUITABLE FOR USE		0.05	0.43	0.05	0.05	0.05	3.3
Naphthalene	0.05	6	0.05	0.051	0	460	0.0508933	POTENTIALLY SUITABLE FOR USE		0.051	0.05	0.05	0.05	0.05	0.05
Phenanthrene	0.05	6	0.05	6.6	0	22000	5.9259231	POTENTIALLY SUITABLE FOR USE		0.05	0.27	0.05	0.05	0.49	6.6
Pyrene	0.05	6	0.05	13	0	54000	11.679257	POTENTIALLY SUITABLE FOR USE		0.05	0.85	0.29	0.05	0.82	13
Asbestos identified	Y/N									N	N	N	N	N	Y
FOC (dimensionless)	0.018683	**(mean)**								0.001	0.0021	0.026	0.031	0.018	0.034
SOM (calculated)	3.22%	**(mean)**								0.17%	0.36%	4.48%	5.34%	3.10%	5.86%
pH (su)	7.9	**(mean)**								9	8.2	7.7	7.9	7.3	7.5

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 2- Made Ground
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**
Arsenic	1	6	5.2	9.5	0	640	9.991522	POTENTIALLY SUITABLE FOR USE
Beryllium	0.06	6	0.63	1.4	0	390	1.5626945	POTENTIALLY SUITABLE FOR USE
Boron	0.2	6	0.5	8.2	0	190000	7.6579679	POTENTIALLY SUITABLE FOR USE
Cadmium	0.2	6	0.2	0.4	0	220	0.3989224	POTENTIALLY SUITABLE FOR USE
Chromium (III)	1	6	17	86	0	8400	80.133696	POTENTIALLY SUITABLE FOR USE
Chromium (VI)	1.2	6	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE
Copper	1	6	24	44	0	69000	44.936002	POTENTIALLY SUITABLE FOR USE
Lead	2	6	12	300	0	2330	273.39222	POTENTIALLY SUITABLE FOR USE
Mercury, inorganic	0.3	6	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE
Nickel	2	6	13	55	0	1700	53.497449	POTENTIALLY SUITABLE FOR USE
Selenium	1	6	1	1.7	0	13000	1.650293	POTENTIALLY SUITABLE FOR USE
Vanadium	1	6	25	47	0	9000	48.616283	POTENTIALLY SUITABLE FOR USE
Zinc	2	6	48	260	0	670000	244.15412	POTENTIALLY SUITABLE FOR USE
Cyanide (free)	1	6	1	1.01	0	16000	1.0089333	POTENTIALLY SUITABLE FOR USE
Phenol (total)	2	6	1	1.01	0	1500	1.0089333	POTENTIALLY SUITABLE FOR USE
Acenaphthene	0.05	6	0.05	0.95	0	97000	0.854	POTENTIALLY SUITABLE FOR USE
Acenaphthylene	0.05	6	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Anthracene	0.05	6	0.05	1.8	0	540000	1.6133333	POTENTIALLY SUITABLE FOR USE
Benz(a)anthracene	0.05	6	0.05	7.7	0	91	3.9811442	POTENTIALLY SUITABLE FOR USE
Benzo(a)pyrene	0.05	6	0.05	7.4	0	14	6.6628344	POTENTIALLY SUITABLE FOR USE
Benzo(b)fluoranthene	0.05	6	0.05	7.3	0	98	6.5833382	POTENTIALLY SUITABLE FOR USE
Benzo(ghi)perylene	0.05	6	0.05	3.7	0	640	3.3457809	POTENTIALLY SUITABLE FOR USE
Benzo(k)fluoranthene	0.05	6	0.05	3.7	0	140	3.3235687	POTENTIALLY SUITABLE FOR USE
Chrysene	0.05	6	0.05	5.5	0	140	4.9662512	POTENTIALLY SUITABLE FOR USE
Dibenz(a,h)anthracene	0.05	6	0.05	0.92	0	12	0.8272	POTENTIALLY SUITABLE FOR USE
Fluoranthene	0.05	6	0.05	15	0	23000	13.463917	POTENTIALLY SUITABLE FOR USE
Fluorene	0.05	6	0.05	0.78	0	68000	0.7021333	POTENTIALLY SUITABLE FOR USE
Indeno(1,2,3,cd)pyrene	0.05	6	0.05	3.3	0	59	2.9772543	POTENTIALLY SUITABLE FOR USE
Naphthalene	0.05	6	0.05	0.051	0	460	0.0508933	POTENTIALLY SUITABLE FOR USE
Phenanthrene	0.05	6	0.05	6.6	0	22000	5.9259231	POTENTIALLY SUITABLE FOR USE
Pyrene	0.05	6	0.05	13	0	54000	11.679257	POTENTIALLY SUITABLE FOR USE
Asbestos identified	Y/N							
FOC (dimensionless)	0.018683	**(mean)**						
SOM (calculated)	3.22%	**(mean)**						
pH (su)	7.9	**(mean)**						

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 2- Made Ground
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type: All	BC	TM	TM	TM	TS
								Location & Depth:	TP20	WS10	WS13	WS17	WS22	WS39
									0.75	0.75	0.50	0.50	0.30	0.10
Arsenic	1	6	6.3	13	0	640	10.096821	POTENTIALLY SUITABLE FOR USE	6.3	6.7	7.7	6.9	13	7.7
Beryllium	0.06	6	0.68	1.4	0	390	1.5488341	POTENTIALLY SUITABLE FOR USE	0.99	0.68	1.1	1.4	0.76	1.3
Boron	0.2	6	1	4.1	0	190000	4.0150869	POTENTIALLY SUITABLE FOR USE	2.4	1.5	1	1.1	1.3	4.1
Cadmium	0.2	6	0.2	0.2	0	220	0.2	POTENTIALLY SUITABLE FOR USE	0.2	0.2	0.2	0.2	0.2	0.2
Chromium (III)	1	6	21	37	0	8400	41.128667	POTENTIALLY SUITABLE FOR USE	30	21	28	37	25	37
Chromium (VI)	1.2	6	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	6	16	28	0	69000	27.551742	POTENTIALLY SUITABLE FOR USE	16	28	17	20	20	19
Lead	2	6	11	29	0	2330	32.721451	POTENTIALLY SUITABLE FOR USE	25	18	11	16	25	29
Mercury, inorganic	0.3	6	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE	0.3	0.3	0.3	0.3	0.3	0.3
Nickel	2	6	14	35	0	1700	36.112946	POTENTIALLY SUITABLE FOR USE	20	14	27	35	17	23
Selenium	1	6	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE	1	1	1	1	1	1
Vanadium	1	6	25	48	0	9000	53.28694	POTENTIALLY SUITABLE FOR USE	44	25	37	43	35	48
Zinc	2	6	44	85	0	670000	84.290697	POTENTIALLY SUITABLE FOR USE	63	51	44	57	50	85
Cyanide (free)	1	6	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE	1	1	1	1	1	1
Phenol (total)	2	6	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE	1	1	1	1	1	1
Acenaphthene	0.05	6	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Acenaphthylene	0.05	6	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Anthracene	0.05	6	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Benz(a)anthracene	0.05	6	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(a)pyrene	0.05	6	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(b)fluoranthene	0.05	6	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(ghi)perylene	0.05	6	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Benzo(k)fluoranthene	0.05	6	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Chrysene	0.05	6	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Dibenz(a,h)anthracene	0.05	6	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Fluoranthene	0.05	6	0.05	0.2	0	23000	0.184	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.2
Fluorene	0.05	6	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Indeno(1,2,3,cd)pyrene	0.05	6	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Naphthalene	0.05	6	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Phenanthrene	0.05	6	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.05
Pyrene	0.05	6	0.05	0.2	0	54000	0.184	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05	0.05	0.05	0.2
Asbestos identified	Y/N								N	N	N	N	N	N
FOC (dimensionless)	0.018	**(mean)**							0.025	0.018	0.022	0.012	0.016	0.015
SOM (calculated)	3.10%	**(mean)**							4.31%	3.10%	3.79%	2.07%	2.76%	2.59%
pH (su)	7.3	**(mean)**							7.1	7.3	7.3	7.5	7.3	7.1

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 2- Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**
Arsenic	1	6	6.3	13	0	640	10.096821	POTENTIALLY SUITABLE FOR USE
Beryllium	0.06	6	0.68	1.4	0	390	1.5488341	POTENTIALLY SUITABLE FOR USE
Boron	0.2	6	1	4.1	0	190000	4.0150869	POTENTIALLY SUITABLE FOR USE
Cadmium	0.2	6	0.2	0.2	0	220	0.2	POTENTIALLY SUITABLE FOR USE
Chromium (III)	1	6	21	37	0	8400	41.128667	POTENTIALLY SUITABLE FOR USE
Chromium (VI)	1.2	6	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE
Copper	1	6	16	28	0	69000	27.551742	POTENTIALLY SUITABLE FOR USE
Lead	2	6	11	29	0	2330	32.721451	POTENTIALLY SUITABLE FOR USE
Mercury, inorganic	0.3	6	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE
Nickel	2	6	14	35	0	1700	36.112946	POTENTIALLY SUITABLE FOR USE
Selenium	1	6	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE
Vanadium	1	6	25	48	0	9000	53.28694	POTENTIALLY SUITABLE FOR USE
Zinc	2	6	44	85	0	670000	84.290697	POTENTIALLY SUITABLE FOR USE
Cyanide (free)	1	6	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE
Phenol (total)	2	6	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE
Acenaphthene	0.05	6	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Acenaphthylene	0.05	6	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Anthracene	0.05	6	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE
Benz(a)anthracene	0.05	6	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(a)pyrene	0.05	6	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(b)fluoranthene	0.05	6	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(ghi)perylene	0.05	6	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(k)fluoranthene	0.05	6	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE
Chrysene	0.05	6	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE
Dibenz(a,h)anthracene	0.05	6	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE
Fluoranthene	0.05	6	0.05	0.2	0	23000	0.184	POTENTIALLY SUITABLE FOR USE
Fluorene	0.05	6	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE
Indeno(1,2,3,cd)pyrene	0.05	6	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE
Naphthalene	0.05	6	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE
Phenanthrene	0.05	6	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE
Pyrene	0.05	6	0.05	0.2	0	54000	0.184	POTENTIALLY SUITABLE FOR USE
Asbestos identified	Y/N							
FOC (dimensionless)	0.018	**(mean)**						
SOM (calculated)	3.10%	**(mean)**						
pH (su)	7.3	**(mean)**						

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 2- Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
									Location & Depth	HP06	HP06	HP08	HP08	HP10	HP14	HP15	WS26	WS27	WS27	WS28	WS32
										0.40	0.80	0.30	0.50	0.20	0.30	0.30	0.35	0.20	0.50	0.30	0.10
Arsenic	1	12	0.2	12	0	640	7.8327807	POTENTIALLY SUITABLE FOR USE		6.7	6.2	11	5.1	0.2	6.3	8.2	5.6	4.3	5.3	12	3.3
Beryllium	0.06	12	0.53	8	0	390	4.2084473	POTENTIALLY SUITABLE FOR USE		0.83	1.7	1.8	0.9	8	1.9	0.61	0.62	0.53	0.78	0.86	0.57
Boron	0.2	12	0.8	3.7	0	190000	2.3734608	POTENTIALLY SUITABLE FOR USE		1.1	0.8	1.1	1	1	3.7	0.8	1.6	1.7	1.6	1	1.1
Cadmium	0.2	12	0.2	2.6	0	220	1.5555296	POTENTIALLY SUITABLE FOR USE		0.2	0.2	0.2	0.2	2.6	0.9	1.6	0.3	0.4	0.2	0.2	0.2
Chromium (III)	1	12	0.4	50	0	8400	35.700798	POTENTIALLY SUITABLE FOR USE		21	50	17	27	0.4	25	20	18	20	23	21	19
Chromium (VI)	1.2	12	1.2	24	0	33	11.384	POTENTIALLY SUITABLE FOR USE		1.2	1.2	1.2	1.2	24	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	12	12	2100	0	69000	953.77512	POTENTIALLY SUITABLE FOR USE		14	18	44	12	25	75	2100	32	29	14	31	13
Lead	2	12	7.5	1100	0	2330	508.91555	POTENTIALLY SUITABLE FOR USE		7.9	7.5	28	9.2	51	110	1100	15	21	11	40	15
Mercury, inorganic	0.3	12	0.3	49	0	3600	22.052667	POTENTIALLY SUITABLE FOR USE		0.3	0.3	0.3	0.3	49	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Nickel	2	12	0.3	44	0	1700	33.25287	POTENTIALLY SUITABLE FOR USE		18	44	28	22	0.3	28	20	17	17	17	18	15
Selenium	1	12	1	25	0	13000	11.730361	POTENTIALLY SUITABLE FOR USE		1	1	1	1	25	1.2	1	1	1	1	1	1
Vanadium	1	12	1	49	0	9000	47.388777	POTENTIALLY SUITABLE FOR USE		32	37	44	27	1	32	44	34	49	30	28	20
Zinc	2	12	35	530	0	670000	301.71458	POTENTIALLY SUITABLE FOR USE		55	72	85	65	35	530	260	57	85	56	130	65
Cyanide (free)	1	12	1	160	0	16000	72.02	POTENTIALLY SUITABLE FOR USE		1	1	1	1	160	1	1	1	1	1	1	1
Phenol (total)	2	12	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1	1	1	1	1	1	1	1
Acenaphthene	0.05	12	0.05	1	0	97000	0.5744285	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.63	0.05	1	0.05	0.05	0.05	0.05	0.05	0.2	0.05
Acenaphthylene	0.05	12	0.05	1.3	0	97000	0.6083333	POTENTIALLY SUITABLE FOR USE		0.05	0.05	1.3	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Anthracene	0.05	12	0.05	5	0	540000	2.4144004	POTENTIALLY SUITABLE FOR USE		0.05	0.05	5	0.05	0.05	0.13	0.05	0.05	0.05	0.05	1.5	0.05
Benz(a)anthracene	0.05	12	0.05	19	0	91	8.927002	POTENTIALLY SUITABLE FOR USE		0.05	0.05	19	0.05	0.64	0.77	0.05	0.05	0.05	0.05	4	0.05
Benzo(a)pyrene	0.05	12	0.05	22	1	14	5.7469906	POTENTIALLY SUITABLE FOR USE		0.05	0.05	22	0.05	2.6	0.93	0.05	0.05	0.05	0.05	4	0.05
Benzo(b)fluoranthene	0.05	12	0.05	23	0	98	10.815359	POTENTIALLY SUITABLE FOR USE		0.05	0.05	23	0.05	2.3	1.1	0.05	0.05	0.05	0.05	4	0.05
Benzo(ghi)perylene	0.05	12	0.05	12	0	640	5.8390708	POTENTIALLY SUITABLE FOR USE		0.05	0.05	12	0.05	2.9	0.57	0.05	0.05	0.05	0.05	2.2	0.05
Benzo(k)fluoranthene	0.05	12	0.05	10	0	140	4.7571137	POTENTIALLY SUITABLE FOR USE		0.05	0.05	10	0.05	1.3	0.32	0.05	0.05	0.05	0.05	2	0.05
Chrysene	0.05	12	0.05	17	0	140	7.8968943	POTENTIALLY SUITABLE FOR USE		0.05	0.05	17	0.05	0.76	0.65	0.05	0.05	0.05	0.05	2.7	0.05
Dibenz(a,h)anthracene	0.05	12	0.05	2.8	0	12	1.6684759	POTENTIALLY SUITABLE FOR USE		0.05	0.05	2.8	0.05	2.1	0.05	0.05	0.05	0.05	0.05	0.51	0.05
Fluoranthene	0.05	12	0.05	41	0	23000	19.173331	POTENTIALLY SUITABLE FOR USE		0.05	0.05	41	0.05	0.05	1.6	0.05	0.05	0.05	0.05	8.6	0.05
Fluorene	0.05	12	0.05	5.6	0	68000	2.5761477	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.58	0.05	5.6	0.05	0.05	0.05	0.05	0.05	0.26	0.05
Indeno(1,2,3,cd)pyrene	0.05	12	0.05	11	0	59	5.1076746	POTENTIALLY SUITABLE FOR USE		0.05	0.05	11	0.05	0.17	0.48	0.05	0.05	0.05	0.05	1.8	0.05
Naphthalene	0.05	12	0.05	1	0	460	0.4743333	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Phenanthrene	0.05	12	0.05	14	0	22000	6.8556076	POTENTIALLY SUITABLE FOR USE		0.05	0.05	14	0.05	0.05	0.61	0.05	0.05	0.05	0.05	4.9	0.05
Pyrene	0.05	12	0.05	37	0	54000	17.391047	POTENTIALLY SUITABLE FOR USE		0.05	0.05	37	0.05	2.5	1.4	0.05	0.05	0.05	0.05	7.4	0.05
Asbestos identified	Y/N									N	N	N	N	N	N	N	N	N	N	N	N
FOC (dimensionless)	0.016117	**(mean)**								0.012	0.0039	0.0028	0.034	0.0022	0.018	0.038	0.0081	0.029	0.033	0.0072	0.0052
SOM (calculated)	2.78%	**(mean)**								2.07%	0.67%	0.48%	5.86%	0.38%	3.10%	6.55%	1.40%	5.00%	5.69%	1.24%	0.90%
pH (su)	7.7	**(mean)**								7.9	8	7.8	6.8	7.5	7.6	7.6	7.5	7.3	7.9	8.2	7.7

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Made Ground
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**
Arsenic	1	12	0.2	12	0	640	7.8327807	POTENTIALLY SUITABLE FOR USE
Beryllium	0.06	12	0.53	8	0	390	4.2084473	POTENTIALLY SUITABLE FOR USE
Boron	0.2	12	0.8	3.7	0	190000	2.3734608	POTENTIALLY SUITABLE FOR USE
Cadmium	0.2	12	0.2	2.6	0	220	1.5555296	POTENTIALLY SUITABLE FOR USE
Chromium (III)	1	12	0.4	50	0	8400	35.700798	POTENTIALLY SUITABLE FOR USE
Chromium (VI)	1.2	12	1.2	24	0	33	11.384	POTENTIALLY SUITABLE FOR USE
Copper	1	12	12	2100	0	69000	953.77512	POTENTIALLY SUITABLE FOR USE
Lead	2	12	7.5	1100	0	2330	508.91555	POTENTIALLY SUITABLE FOR USE
Mercury, inorganic	0.3	12	0.3	49	0	3600	22.052667	POTENTIALLY SUITABLE FOR USE
Nickel	2	12	0.3	44	0	1700	33.25287	POTENTIALLY SUITABLE FOR USE
Selenium	1	12	1	25	0	13000	11.730361	POTENTIALLY SUITABLE FOR USE
Vanadium	1	12	1	49	0	9000	47.388777	POTENTIALLY SUITABLE FOR USE
Zinc	2	12	35	530	0	670000	301.71458	POTENTIALLY SUITABLE FOR USE
Cyanide (free)	1	12	1	160	0	16000	72.02	POTENTIALLY SUITABLE FOR USE
Phenol (total)	2	12	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE
Acenaphthene	0.05	12	0.05	1	0	97000	0.5744285	POTENTIALLY SUITABLE FOR USE
Acenaphthylene	0.05	12	0.05	1.3	0	97000	0.6083333	POTENTIALLY SUITABLE FOR USE
Anthracene	0.05	12	0.05	5	0	540000	2.4144004	POTENTIALLY SUITABLE FOR USE
Benz(a)anthracene	0.05	12	0.05	19	0	91	8.927002	POTENTIALLY SUITABLE FOR USE
Benzo(a)pyrene	0.05	12	0.05	22	1	14	5.7469906	POTENTIALLY SUITABLE FOR USE
Benzo(b)fluoranthene	0.05	12	0.05	23	0	98	10.815359	POTENTIALLY SUITABLE FOR USE
Benzo(ghi)perylene	0.05	12	0.05	12	0	640	5.8390708	POTENTIALLY SUITABLE FOR USE
Benzo(k)fluoranthene	0.05	12	0.05	10	0	140	4.7571137	POTENTIALLY SUITABLE FOR USE
Chrysene	0.05	12	0.05	17	0	140	7.8968943	POTENTIALLY SUITABLE FOR USE
Dibenz(a,h)anthracene	0.05	12	0.05	2.8	0	12	1.6684759	POTENTIALLY SUITABLE FOR USE
Fluoranthene	0.05	12	0.05	41	0	23000	19.173331	POTENTIALLY SUITABLE FOR USE
Fluorene	0.05	12	0.05	5.6	0	68000	2.5761477	POTENTIALLY SUITABLE FOR USE
Indeno(1,2,3,cd)pyrene	0.05	12	0.05	11	0	59	5.1076746	POTENTIALLY SUITABLE FOR USE
Naphthalene	0.05	12	0.05	1	0	460	0.4743333	POTENTIALLY SUITABLE FOR USE
Phenanthrene	0.05	12	0.05	14	0	22000	6.8556076	POTENTIALLY SUITABLE FOR USE
Pyrene	0.05	12	0.05	37	0	54000	17.391047	POTENTIALLY SUITABLE FOR USE
Asbestos identified	Y/N							
FOC (dimensionless)	0.016117	**(mean)**						
SOM (calculated)	2.78%	**(mean)**						
pH (su)	7.7	**(mean)**						

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Made Ground
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	TM	TM	All	TM	TS	TS	TM	TS
									Location & Depth	HP09	HP10	HP11	HP13	HP16	WS30	WS31	WS37
										0.5	0.5	0.3	0.3	0.3	0.2	0.3	0.2
Arsenic	1	8	3.1	12	0	640	9.1615207	POTENTIALLY SUITABLE FOR USE		3.1	5	12	11	5.9	4.5	5.3	9
Beryllium	0.06	8	0.48	1.7	0	390	1.5240989	POTENTIALLY SUITABLE FOR USE		1.1	1.7	1	0.9	0.78	0.48	0.99	1
Boron	0.2	8	1	3.1	0	190000	2.9162331	POTENTIALLY SUITABLE FOR USE		1.1	1.7	1.9	3.1	1	1.9	1.3	2.5
Cadmium	0.2	8	0.2	1.2	0	220	0.87	POTENTIALLY SUITABLE FOR USE		0.2	0.2	0.2	1.2	0.2	0.2	0.2	0.2
Chromium (III)	1	8	16	51	0	8400	44.958639	POTENTIALLY SUITABLE FOR USE		31	51	27	20	22	16	29	32
Chromium (VI)	1.2	8	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	8	13	260	0	69000	182.40588	POTENTIALLY SUITABLE FOR USE		49	20	19	260	15	14	13	18
Lead	2	8	6.3	160	0	2330	113.13844	POTENTIALLY SUITABLE FOR USE		6.3	8.3	23	160	17	22	9.8	24
Mercury, inorganic	0.3	8	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Nickel	2	8	11	45	0	1700	40.445327	POTENTIALLY SUITABLE FOR USE		30	45	23	22	21	11	24	28
Selenium	1	8	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1	1	1	1
Vanadium	1	8	18	43	0	9000	44.914248	POTENTIALLY SUITABLE FOR USE		29	43	38	37	25	18	34	36
Zinc	2	8	52	160	0	670000	130.69647	POTENTIALLY SUITABLE FOR USE		52	75	78	160	52	54	52	74
Cyanide (free)	1	8	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1	1	1	1
Phenol (total)	2	8	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE		1	1	1	1	1	1	1	1
Acenaphthene	0.05	8	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Acenaphthylene	0.05	8	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Anthracene	0.05	8	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Benz(a)anthracene	0.05	8	0.05	0.34	0	91	0.2443	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.34	0.05	0.05	0.05	0.05
Benzo(a)pyrene	0.05	8	0.05	0.36	0	14	0.1621813	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.36	0.05	0.05	0.05	0.05
Benzo(b)fluoranthene	0.05	8	0.05	0.44	0	98	0.3113	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.44	0.05	0.05	0.05	0.05
Benzo(ghi)perylene	0.05	8	0.05	0.31	0	640	0.2242	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.31	0.05	0.05	0.05	0.05
Benzo(k)fluoranthene	0.05	8	0.05	0.14	0	140	0.1103	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.14	0.05	0.05	0.05	0.05
Chrysene	0.05	8	0.05	0.33	0	140	0.2376	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.33	0.05	0.05	0.05	0.05
Dibenz(a,h)anthracene	0.05	8	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Fluoranthene	0.05	8	0.05	0.76	0	23000	0.5257	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.76	0.05	0.05	0.05	0.05
Fluorene	0.05	8	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Indeno(1,2,3,cd)pyrene	0.05	8	0.05	0.2	0	59	0.1505	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05
Naphthalene	0.05	8	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Phenanthrene	0.05	8	0.05	0.57	0	22000	0.3984	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.57	0.05	0.05	0.05	0.05
Pyrene	0.05	8	0.05	0.66	0	54000	0.4587	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.66	0.05	0.05	0.05	0.05
Asbestos identified	Y/N									N	N	N	N	N	N	N	N
FOC (dimensionless)	0.015888	**(mean)**								0.005	0.022	0.0031	0.012	0.015	0.02	0.029	0.021
SOM (calculated)	2.74%	**(mean)**								0.86%	3.79%	0.53%	2.07%	2.59%	3.45%	5.00%	3.62%
pH (su)	7.8	**(mean)**								7.3	7.1	7.1	7.2	8	11.3	7.3	7.2

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**
Arsenic	1	8	3.1	12	0	640	9.1615207	POTENTIALLY SUITABLE FOR USE
Beryllium	0.06	8	0.48	1.7	0	390	1.5240989	POTENTIALLY SUITABLE FOR USE
Boron	0.2	8	1	3.1	0	190000	2.9162331	POTENTIALLY SUITABLE FOR USE
Cadmium	0.2	8	0.2	1.2	0	220	0.87	POTENTIALLY SUITABLE FOR USE
Chromium (III)	1	8	16	51	0	8400	44.958639	POTENTIALLY SUITABLE FOR USE
Chromium (VI)	1.2	8	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE
Copper	1	8	13	260	0	69000	182.40588	POTENTIALLY SUITABLE FOR USE
Lead	2	8	6.3	160	0	2330	113.13844	POTENTIALLY SUITABLE FOR USE
Mercury, inorganic	0.3	8	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE
Nickel	2	8	11	45	0	1700	40.445327	POTENTIALLY SUITABLE FOR USE
Selenium	1	8	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE
Vanadium	1	8	18	43	0	9000	44.914248	POTENTIALLY SUITABLE FOR USE
Zinc	2	8	52	160	0	670000	130.69647	POTENTIALLY SUITABLE FOR USE
Cyanide (free)	1	8	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE
Phenol (total)	2	8	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE
Acenaphthene	0.05	8	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Acenaphthylene	0.05	8	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Anthracene	0.05	8	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE
Benz(a)anthracene	0.05	8	0.05	0.34	0	91	0.2443	POTENTIALLY SUITABLE FOR USE
Benzo(a)pyrene	0.05	8	0.05	0.36	0	14	0.1621813	POTENTIALLY SUITABLE FOR USE
Benzo(b)fluoranthene	0.05	8	0.05	0.44	0	98	0.3113	POTENTIALLY SUITABLE FOR USE
Benzo(ghi)perylene	0.05	8	0.05	0.31	0	640	0.2242	POTENTIALLY SUITABLE FOR USE
Benzo(k)fluoranthene	0.05	8	0.05	0.14	0	140	0.1103	POTENTIALLY SUITABLE FOR USE
Chrysene	0.05	8	0.05	0.33	0	140	0.2376	POTENTIALLY SUITABLE FOR USE
Dibenz(a,h)anthracene	0.05	8	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE
Fluoranthene	0.05	8	0.05	0.76	0	23000	0.5257	POTENTIALLY SUITABLE FOR USE
Fluorene	0.05	8	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE
Indeno(1,2,3,cd)pyrene	0.05	8	0.05	0.2	0	59	0.1505	POTENTIALLY SUITABLE FOR USE
Naphthalene	0.05	8	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE
Phenanthrene	0.05	8	0.05	0.57	0	22000	0.3984	POTENTIALLY SUITABLE FOR USE
Pyrene	0.05	8	0.05	0.66	0	54000	0.4587	POTENTIALLY SUITABLE FOR USE
Asbestos identified	Y/N							
FOC (dimensionless)	0.015888	**(mean)**						
SOM (calculated)	2.74%	**(mean)**						
pH (su)	7.8	**(mean)**						

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type: TS	TS	TS
								Location & Depth:	TP12	TP12	WS07
									0.10	0.20	0.30
Arsenic	1	3	8.3	9.6	0	640	10.105494	POTENTIALLY SUITABLE FOR USE	8.3	9.6	9.1
Beryllium	0.06	3	1.4	1.5	0	390	1.612	POTENTIALLY SUITABLE FOR USE	1.5	1.4	1.5
Boron	0.2	3	2.5	3.5	0	190000	4.3584176	POTENTIALLY SUITABLE FOR USE	3.2	3.5	2.5
Cadmium	0.2	3	0.2	0.3	0	220	0.412	POTENTIALLY SUITABLE FOR USE	0.3	0.3	0.2
Chromium (III)	1	3	39	41	0	8400	42.573333	POTENTIALLY SUITABLE FOR USE	41	39	39
Chromium (VI)	1.2	3	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE	1.2	1.2	1.2
Copper	1	3	20	21	0	69000	22.12	POTENTIALLY SUITABLE FOR USE	21	20	21
Lead	2	3	19	30	0	2330	41.311817	POTENTIALLY SUITABLE FOR USE	29	30	19
Mercury, inorganic	0.3	3	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE	0.3	0.3	0.3
Nickel	2	3	25	35	0	1700	42.866667	POTENTIALLY SUITABLE FOR USE	25	25	35
Selenium	1	3	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE	1	1	1
Vanadium	1	3	45	53	0	9000	58.972426	POTENTIALLY SUITABLE FOR USE	53	46	45
Zinc	2	3	60	95	0	670000	129.31739	POTENTIALLY SUITABLE FOR USE	95	90	60
Cyanide (free)	1	3	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE	1	1	1
Phenol (total)	2	3	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE	1	1	1
Acenaphthene	0.05	3	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Acenaphthylene	0.05	3	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Anthracene	0.05	3	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Benz(a)anthracene	0.05	3	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Benzo(a)pyrene	0.05	3	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Benzo(b)fluoranthene	0.05	3	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Benzo(ghi)perylene	0.05	3	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Benzo(k)fluoranthene	0.05	3	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Chrysene	0.05	3	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Dibenz(a,h)anthracene	0.05	3	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Fluoranthene	0.05	3	0.05	0.05	0	23000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Fluorene	0.05	3	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Indeno(1,2,3,cd)pyrene	0.05	3	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Naphthalene	0.05	3	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Phenanthrene	0.05	3	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Pyrene	0.05	3	0.05	0.05	0	54000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05	0.05
Asbestos identified	Y/N								N	N	N
FOC (dimensionless)	0.014733	**(mean)**							0.015	0.024	0.0052
SOM (calculated)	2.54%	**(mean)**							2.59%	4.14%	0.90%
pH (su)	7.3	**(mean)**							7.3	7.1	7.5

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**
Arsenic	1	3	8.3	9.6	0	640	10.105494	POTENTIALLY SUITABLE FOR USE
Beryllium	0.06	3	1.4	1.5	0	390	1.612	POTENTIALLY SUITABLE FOR USE
Boron	0.2	3	2.5	3.5	0	190000	4.3584176	POTENTIALLY SUITABLE FOR USE
Cadmium	0.2	3	0.2	0.3	0	220	0.412	POTENTIALLY SUITABLE FOR USE
Chromium (III)	1	3	39	41	0	8400	42.573333	POTENTIALLY SUITABLE FOR USE
Chromium (VI)	1.2	3	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE
Copper	1	3	20	21	0	69000	22.12	POTENTIALLY SUITABLE FOR USE
Lead	2	3	19	30	0	2330	41.311817	POTENTIALLY SUITABLE FOR USE
Mercury, inorganic	0.3	3	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE
Nickel	2	3	25	35	0	1700	42.866667	POTENTIALLY SUITABLE FOR USE
Selenium	1	3	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE
Vanadium	1	3	45	53	0	9000	58.972426	POTENTIALLY SUITABLE FOR USE
Zinc	2	3	60	95	0	670000	129.31739	POTENTIALLY SUITABLE FOR USE
Cyanide (free)	1	3	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE
Phenol (total)	2	3	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE
Acenaphthene	0.05	3	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Acenaphthylene	0.05	3	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE
Anthracene	0.05	3	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE
Benz(a)anthracene	0.05	3	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(a)pyrene	0.05	3	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(b)fluoranthene	0.05	3	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(ghi)perylene	0.05	3	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE
Benzo(k)fluoranthene	0.05	3	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE
Chrysene	0.05	3	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE
Dibenz(a,h)anthracene	0.05	3	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE
Fluoranthene	0.05	3	0.05	0.05	0	23000	0.05	POTENTIALLY SUITABLE FOR USE
Fluorene	0.05	3	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE
Indeno(1,2,3,cd)pyrene	0.05	3	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE
Naphthalene	0.05	3	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE
Phenanthrene	0.05	3	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE
Pyrene	0.05	3	0.05	0.05	0	54000	0.05	POTENTIALLY SUITABLE FOR USE
Asbestos identified	Y/N							
FOC (dimensionless)	0.014733	**(mean)**						
SOM (calculated)	2.54%	**(mean)**						
pH (su)	7.3	**(mean)**						

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated																								
								Soil Type	TS	TS														
								Location & Depth	WS19	WS35														
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**0.10**	**0.10**														
Arsenic	1	2	7.8	8.2	0	640	9.2628	POTENTIALLY SUITABLE FOR USE	7.8	8.2														
Beryllium	0.06	2	0.73	0.96	0	390	1.3464	POTENTIALLY SUITABLE FOR USE	0.73	0.96														
Boron	0.2	2	1.6	2.4	0	190000	3.744	POTENTIALLY SUITABLE FOR USE	1.6	2.4														
Cadmium	0.2	2	0.2	0.3	0	220	0.468	POTENTIALLY SUITABLE FOR USE	0.2	0.3														
Chromium (III)	1	2	23	31	0	8400	44.44	POTENTIALLY SUITABLE FOR USE	23	31														
Chromium (VI)	1.2	2	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE	1.2	1.2														
Copper	1	2	14	19	0	69000	27.4	POTENTIALLY SUITABLE FOR USE	14	19														
Lead	2	2	23	23	0	2330	23	POTENTIALLY SUITABLE FOR USE	23	23														
Mercury, inorganic	0.3	2	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE	0.3	0.3														
Nickel	2	2	17	22	0	1700	30.4	POTENTIALLY SUITABLE FOR USE	17	22														
Selenium	1	2	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE	1	1														
Vanadium	1	2	32	40	0	9000	53.44	POTENTIALLY SUITABLE FOR USE	32	40														
Zinc	2	2	55	68	0	670000	89.84	POTENTIALLY SUITABLE FOR USE	55	68														
Cyanide (free)	1	2	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE	1	1														
Phenol (total)	2	2	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE	1	1														
Acenaphthene	0.05	2	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Acenaphthylene	0.05	2	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Anthracene	0.05	2	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Benz(a)anthracene	0.05	2	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Benzo(a)pyrene	0.05	2	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Benzo(b)fluoranthene	0.05	2	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Benzo(ghi)perylene	0.05	2	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Benzo(k)fluoranthene	0.05	2	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Chrysene	0.05	2	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Dibenz(a,h)anthracene	0.05	2	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Fluoranthene	0.05	2	0.05	0.05	0	23000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Fluorene	0.05	2	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Indeno(1,2,3,cd)pyrene	0.05	2	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Naphthalene	0.05	2	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Phenanthrene	0.05	2	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Pyrene	0.05	2	0.05	0.05	0	54000	0.05	POTENTIALLY SUITABLE FOR USE	0.05	0.05														
Asbestos identified	Y/N								N	N														
FOC (dimensionless)	0.0108	**(mean)**							0.0056	0.016														
SOM (calculated)	1.86%	**(mean)**							0.97%	2.76%														
pH (su)	7.3	**(mean)**							7.4	7.2														

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type Location & Depth												
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**												
Arsenic	1	2	7.8	8.2	0	640	9.2628	POTENTIALLY SUITABLE FOR USE												
Beryllium	0.06	2	0.73	0.96	0	390	1.3464	POTENTIALLY SUITABLE FOR USE												
Boron	0.2	2	1.6	2.4	0	190000	3.744	POTENTIALLY SUITABLE FOR USE												
Cadmium	0.2	2	0.2	0.3	0	220	0.468	POTENTIALLY SUITABLE FOR USE												
Chromium (III)	1	2	23	31	0	8400	44.44	POTENTIALLY SUITABLE FOR USE												
Chromium (VI)	1.2	2	1.2	1.2	0	33	1.2	POTENTIALLY SUITABLE FOR USE												
Copper	1	2	14	19	0	69000	27.4	POTENTIALLY SUITABLE FOR USE												
Lead	2	2	23	23	0	2330	23	POTENTIALLY SUITABLE FOR USE												
Mercury, inorganic	0.3	2	0.3	0.3	0	3600	0.3	POTENTIALLY SUITABLE FOR USE												
Nickel	2	2	17	22	0	1700	30.4	POTENTIALLY SUITABLE FOR USE												
Selenium	1	2	1	1	0	13000	1	POTENTIALLY SUITABLE FOR USE												
Vanadium	1	2	32	40	0	9000	53.44	POTENTIALLY SUITABLE FOR USE												
Zinc	2	2	55	68	0	670000	89.84	POTENTIALLY SUITABLE FOR USE												
Cyanide (free)	1	2	1	1	0	16000	1	POTENTIALLY SUITABLE FOR USE												
Phenol (total)	2	2	1	1	0	1500	1	POTENTIALLY SUITABLE FOR USE												
Acenaphthene	0.05	2	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE												
Acenaphthylene	0.05	2	0.05	0.05	0	97000	0.05	POTENTIALLY SUITABLE FOR USE												
Anthracene	0.05	2	0.05	0.05	0	540000	0.05	POTENTIALLY SUITABLE FOR USE												
Benz(a)anthracene	0.05	2	0.05	0.05	0	91	0.05	POTENTIALLY SUITABLE FOR USE												
Benzo(a)pyrene	0.05	2	0.05	0.05	0	14	0.05	POTENTIALLY SUITABLE FOR USE												
Benzo(b)fluoranthene	0.05	2	0.05	0.05	0	98	0.05	POTENTIALLY SUITABLE FOR USE												
Benzo(ghi)perylene	0.05	2	0.05	0.05	0	640	0.05	POTENTIALLY SUITABLE FOR USE												
Benzo(k)fluoranthene	0.05	2	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE												
Chrysene	0.05	2	0.05	0.05	0	140	0.05	POTENTIALLY SUITABLE FOR USE												
Dibenz(a,h)anthracene	0.05	2	0.05	0.05	0	12	0.05	POTENTIALLY SUITABLE FOR USE												
Fluoranthene	0.05	2	0.05	0.05	0	23000	0.05	POTENTIALLY SUITABLE FOR USE												
Fluorene	0.05	2	0.05	0.05	0	68000	0.05	POTENTIALLY SUITABLE FOR USE												
Indeno(1,2,3,cd)pyrene	0.05	2	0.05	0.05	0	59	0.05	POTENTIALLY SUITABLE FOR USE												
Naphthalene	0.05	2	0.05	0.05	0	460	0.05	POTENTIALLY SUITABLE FOR USE												
Phenanthrene	0.05	2	0.05	0.05	0	22000	0.05	POTENTIALLY SUITABLE FOR USE												
Pyrene	0.05	2	0.05	0.05	0	54000	0.05	POTENTIALLY SUITABLE FOR USE												
Asbestos identified	Y/N																			
FOC (dimensionless)	0.0108	**(mean)**																		
SOM (calculated)	1.86%	**(mean)**																		
pH (su)	7.3	**(mean)**																		

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 3 - Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

	All values in mg/kg unless otherwise stated				Location & Depth		WS14											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.30**											
Arsenic	1	1	7.4	7.4	0	640	7.4											
Beryllium	0.06	1	0.88	0.88	0	390	0.88											
Boron	0.2	1	3.3	3.3	0	190000	3.3											
Cadmium	0.2	1	0.2	0.2	0	220	0.2											
Chromium (III)	1	1	25	25	0	8400	25											
Chromium (VI)	1.2	1	1.2	1.2	0	33	1.2											
Copper	1	1	19	19	0	69000	19											
Lead	2	1	35	35	0	2330	35											
Mercury, inorganic	0.3	1	0.3	0.3	0	3600	0.3											
Nickel	2	1	19	19	0	1700	19											
Selenium	1	1	1	1	0	13000	1											
Vanadium	1	1	36	36	0	9000	36											
Zinc	2	1	76	76	0	670000	76											
Cyanide (free)	1	1	1	1	0	16000	1											
Phenol (total)	2	1	1	1	0	1500	1											
Acenaphthene	0.05	1	0.05	0.05	0	97000	0.05											
Acenaphthylene	0.05	1	0.05	0.05	0	97000	0.05											
Anthracene	0.05	1	0.12	0.12	0	540000	0.12											
Benz(a)anthracene	0.05	1	0.57	0.57	0	91	0.57											
Benzo(a)pyrene	0.05	1	0.75	0.75	0	14	0.75											
Benzo(b)fluoranthene	0.05	1	0.8	0.8	0	98	0.8											
Benzo(ghi)perylene	0.05	1	0.49	0.49	0	640	0.49											
Benzo(k)fluoranthene	0.05	1	0.43	0.43	0	140	0.43											
Chrysene	0.05	1	0.58	0.58	0	140	0.58											
Dibenz(a,h)anthracene	0.05	1	0.08	0.08	0	12	0.08											
Fluoranthene	0.05	1	1.1	1.1	0	23000	1.1											
Fluorene	0.05	1	0.05	0.05	0	68000	0.05											
Indeno(1,2,3,cd)pyrene	0.05	1	0.43	0.43	0	59	0.43											
Naphthalene	0.05	1	0.05	0.05	0	460	0.05											
Phenanthrene	0.05	1	0.46	0.46	0	22000	0.46											
Pyrene	0.05	1	1	1	0	54000	1											
Asbestos identified	Y/N						N											
FOC (dimensionless)	0.011	**(mean)**					0.011											
SOM (calculated)	1.90%	**(mean)**					1.90%											
pH (su)	8.4	**(mean)**					8.4											

Risk parameter: Human health - commercial (2.5%SOM)
Data set: Area 1 - Made Ground
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	Location & Depth: WS10 0.75
Aliphatics EC5-EC6	0.01	0	0	0	0	560	< 0.001
Aliphatics >EC6-EC8	0.01	0	0	0	0	320	< 0.001
Aliphatics >EC8-EC10	0.01	0	0	0	0	190	< 0.001
Aliphatics >EC10-EC12	0.01	0	0	0	0	120	< 1.0
Aliphatics >EC12-EC16	0.1	0	0	0	0	59	< 2.0
Aliphatics >EC16-EC35	0.1	0	0	0	0	1000000	< 8.0
Aliphatics >EC35-EC44	0.1	0	0	0	0	1000000	< 8.4
Aromatics EC5-EC7	0.01	0	0	0	0	2300	< 8.4
Aromatics >EC7-EC8	0.01	0	0	0	0	1900	< 0.001
Aromatics >EC8-EC10	0.01	0	0	0	0	1500	< 0.001
Aromatics >EC10-EC12	0.01	0	0	0	0	900	< 1.0
Aromatics >EC12-EC16	0.1	0	0	0	0	37000	< 2.0
Aromatics >EC16-EC21	0.1	0	0	0	0	28000	< 10
Aromatics >EC21-EC35	0.1	0	0	0	0	28000	< 10
Aromatics >EC35-EC44	0.1	0	0	0	0	28000	< 8.4

ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH FRACTION
Aliphatics EC5-EC6	
Aliphatics >EC6-EC8	
Considered additive: Aliphatics >EC8-EC10	
Considered additive: Aliphatics >EC10-EC12	
Considered additive: Aliphatics >EC12-EC16	
Aliphatics >EC16-EC35	
Aliphatics >EC35-EC44	
Aromatics EC5-EC7	
Aromatics >EC7-EC8	
Considered additive: Aromatics >EC8-EC10	
Considered additive: Aromatics >EC10-EC12	
Considered additive: Aromatics >EC12-EC16	
Considered additive: Aromatics >EC16-EC21	
Considered additive: Aromatics >EC21-EC35	
Aromatics >EC35-EC44	
Hazard Index for ali>C8-C16	
Hazard Index for aro>C8-C16	
Hazard Index for aro>C16-C35	

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: Human health - commercial (2.5%SOM)
Data set: Area 2 - Natural soils
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated							Location & Depth	HP06	HP08	HP10	WS26	WS27	WS27
								0.4	0.3	0.2	0.35	0.2	0.5
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**							
Aliphatics EC5-EC6	0.01	0	0	0	0	560		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aliphatics >EC6-EC8	0.01	0	0	0	0	320		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aliphatics >EC8-EC10	0.01	0	0	0	0	190		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aliphatics >EC10-EC12	0.01	0	0	0	0	120		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatics >EC12-EC16	0.1	1	14	14	0	59		< 2.0	< 2.0	< 2.0	14	< 2.0	< 2.0
Aliphatics >EC16-EC35	0.1	3	15	36	0	1000000		< 8.0	20	< 8.0	36	15	< 8.0
Aliphatics >EC35-EC44	0.1	2	0	0	0	1000000		< 8.4	190	< 8.4	510	380	< 8.4
Aromatics EC5-EC7	0.01	1	190	190	0	2300		< 8.4	190	< 8.4	< 0.001	< 0.001	< 0.001
Aromatics >EC7-EC8	0.01	0	0	0	0	1900		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aromatics >EC8-EC10	0.01	0	0	0	0	1500		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aromatics >EC10-EC12	0.01	2	1.4	7.8	0	900		< 1.0	< 1.0	< 1.0	1.4	7.8	< 1.0
Aromatics >EC12-EC16	0.1	3	2.3	17	0	37000		< 2.0	17	2.5	< 2.0	2.3	< 2.0
Aromatics >EC16-EC21	0.1	4	16	290	0	28000		< 10	290	16	43	35	< 10
Aromatics >EC21-EC35	0.1	4	79	1300	0	28000		< 10	1200	79	1300	1200	< 10
Aromatics >EC35-EC44	0.1	3	860	1900	0	28000		< 8.4	860	< 8.4	1900	1900	< 8.4

	ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH FRACTION					
	Aliphatics EC5-EC6						
	Aliphatics >EC6-EC8						
Considered additive	Aliphatics >EC8-EC10						
Considered additive	Aliphatics >EC10-EC12						
Considered additive	Aliphatics >EC12-EC16				0.237		
	Aliphatics >EC16-EC35		0.000		0.000	0.000	
	Aliphatics >EC35-EC44		0.000		0.001	0.000	
	Aromatics EC5-EC7		0.083				
	Aromatics >EC7-EC8						
Considered additive	Aromatics >EC8-EC10						
Considered additive	Aromatics >EC10-EC12				0.002	0.009	
Considered additive	Aromatics >EC12-EC16		0.000	0.000		0.000	
Considered additive	Aromatics >EC16-EC21		0.010	0.001	0.002	0.001	
Considered additive	Aromatics >EC21-EC35		0.043	0.003	0.046	0.043	
	Aromatics >EC35-EC44		0.031		0.068	0.068	
	Hazard Index for ali>C8-C16						
	Hazard Index for aro>C8-C16						
	Hazard Index for aro>C16-C35		**0.053**	**0.003**	**0.048**	**0.044**	

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: Human health - commercial (2.5%SOM)
Data set: Area 3 - Made Ground soils
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated							Location & Depth													
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**WS32 0.10**													
Aliphatics EC5-EC6	0.01	0	0	0	0	560	< 0.001													
Aliphatics >EC6-EC8	0.01	0	0	0	0	320	< 0.001													
Aliphatics >EC8-EC10	0.01	0	0	0	0	190	< 0.001													
Aliphatics >EC10-EC12	0.01	0	0	0	0	120	< 1.0													
Aliphatics >EC12-EC16	0.1	0	0	0	0	59	< 2.0													
Aliphatics >EC16-EC35	0.1	0	0	0	0	1000000	< 8.0													
Aliphatics >EC35-EC44	0.1	0	0	0	0	1000000	< 8.4													
Aromatics EC5-EC7	0.01	0	0	0	0	2300	< 8.4													
Aromatics >EC7-EC8	0.01	0	0	0	0	1900	< 0.001													
Aromatics >EC8-EC10	0.01	0	0	0	0	1500	< 0.001													
Aromatics >EC10-EC12	0.01	0	0	0	0	900	< 1.0													
Aromatics >EC12-EC16	0.1	0	0	0	0	37000	< 2.0													
Aromatics >EC16-EC21	0.1	0	0	0	0	28000	< 10													
Aromatics >EC21-EC35	0.1	0	0	0	0	28000	< 10													
Aromatics >EC35-EC44	0.1	0	0	0	0	28000	< 8.4													

	ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**
	Aliphatics EC5-EC6	
	Aliphatics >EC6-EC8	
Considered additive	Aliphatics >EC8-EC10	
Considered additive	Aliphatics >EC10-EC12	
Considered additive	Aliphatics >EC12-EC16	
	Aliphatics >EC16-EC35	
	Aliphatics >EC35-EC44	
	Aromatics EC5-EC7	
	Aromatics >EC7-EC8	
Considered additive	Aromatics >EC8-EC10	
Considered additive	Aromatics >EC10-EC12	
Considered additive	Aromatics >EC12-EC16	
	Aromatics >EC16-EC21	
Considered additive	Aromatics >EC21-EC35	
	Aromatics >EC35-EC44	
	Hazard Index for ali>C8-C16	
	Hazard Index for aro>C8-C16	
	Hazard Index for aro>C16-C35	

Risk parameter: Human health - commercial (2.5%SOM)
Data set: Area 2 - Made Ground soils
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Scenario B Data - Remedial Targets Methodology

Hydrock

RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Aquatic ecosystem
Data set: 0
Client: 0
Site: 0
Job no: 0

UKTAG (Nov 2013): [H] = hazardous substances.
2008/105/EC Annex II: [P]= priority substance, [PH] = priority hazardous substances.
<1 Grey text and "<" sign if value <= LoD
Red fill if value >EQS

Hardness as mg/l CaCO3 1060

Date sampled:

Chemical of Potential Concern (µg/l)	No. of samples	Limit of Detection	EQS	WS 11	WS 13	WS 26	WS 30	WS 39	WS 40
Ag (dissolved)	0	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
As (dissolved)	6	0.15	50	1.42	2.24	2.81	5.33	6.14	5.22
B (dissolved)	6	10	2000	140	250	72	43	67	55
Ba (dissolved)	6	0.06	n/a	49	49	280	520	110	330
Cd (dissolved) [PH]	1	0.02	0.25	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02
Co (dissolved)	6	0.2	3	2.9	0.8	1.8	0.3	0.5	1.6
Cr (VI) (dissolved)	0	5	3.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cr (III) (dissolved)	2	1	4.7	< 1.0	< 1.0	5.4	3.6	< 1.0	< 1.0
Cr (total) (dissolved)	3	0.2	n/a	< 0.2	0.3	5.4	3.6	< 0.2	< 0.2
Cu (dissolved)	6	0.5	1	3.5	3.5	19	5.7	1.8	2.5
Hg (dissolved) [PH]	0	0.005	0.07	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Mn (dissolved)	6	0.05	123	490	66	320	66	190	220
Mo (dissolved)	6	0.05	n/a	2	6	20	3.1	2.2	4.6
Ni (dissolved) [P]	6	0.5	4	3.1	2.7	6.7	1.1	1.2	2.9
Pb (dissolved) [P]	4	0.2	1.2	0.3	0.6	0.6	< 0.2	< 0.2	0.3
Sb (dissolved)	6	0.4	n/a	1.4	3.2	0.7	0.6	1	1.7
Se (dissolved)	6	0.6	n/a	6.8	3.3	5.1	2.6	0.9	1.4
Sn (dissolved)	0	0.2	25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
V (dissolved)	6	0.2	60	0.3	1.4	3.1	23	3	8.4
Zn (dissolved)	6	0.5	10.9	3.1	60	3	2.4	2.5	5.6
Zn (total)	6	0.5	n/a	62	640	31	140	26	130
Cyanide (free)	0	10	1	< 10	< 10	< 10	< 10	< 10	< 10
Cyanide (total)	0	10	n/a	< 10	< 10	< 10	< 10	< 10	< 10
Ammonium (NH4+)	6	15	n/a	110	140	140	190	120	83
Bromate (BrO3)	0	0.002	n/a	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride (F-)	6	50	5000	890	1200	410	520	510	510
Nitrite (NO2-)	6	5	n/a	43	20	82	160	41	54
Sulfate (SO42-)	6	45	400000	264000	142000	377000	70700	898000	53000
pH (min.) (su)	6	0	6	7.3	7.6	7.2	7.5	7.4	7.5
pH (max.) (su)	6	0	9	7.3	7.6	7.2	7.5	7.4	7.5
Electrical conductivity (µS/cm)	6	10	n/a	1700	1200	1600	810	1600	850
Anthracene [PH]	0	0.01	0.1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene [PH]	0	0.01	0.00017	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene [P]	0	0.01	0.0063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene [P]	0	0.01	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene [PH]	0	0.022	n/a	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenol	0	0.5	7.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	BC WS02 0.40	TM WS04 0.50	TS WS08 0.40
Aliphatics EC5-EC6	0.01	0	0	0	0	560	< 0.001	< 0.001	< 0.001
Aliphatics >EC6-EC8	0.01	0	0	0	0	320	< 0.001	< 0.001	< 0.001
Aliphatics >EC8-EC10	0.01	0	0	0	0	190	< 0.001	< 0.001	< 0.001
Aliphatics >EC10-EC12	0.01	0	0	0	0	120	< 1.0	< 1.0	< 1.0
Aliphatics >EC12-EC16	0.1	0	0	0	0	59	< 2.0	< 2.0	< 2.0
Aliphatics >EC16-EC35	0.1	1	17	17	0	1000000	< 8.0	< 8.0	17
Aliphatics >EC35-EC44	0.1	0	0	0	0	1000000	< 8.4	< 8.4	< 8.4
Aromatics EC5-EC7	0.01	0	0	0	0	2300	< 8.4	< 8.4	< 8.4
Aromatics >EC7-EC8	0.01	0	0	0	0	1900	< 0.001	< 0.001	< 0.001
Aromatics >EC8-EC10	0.01	0	0	0	0	1500	< 0.001	< 0.001	< 0.001
Aromatics >EC10-EC12	0.01	0	0	0	0	900	< 1.0	< 1.0	< 1.0
Aromatics >EC12-EC16	0.1	0	0	0	0	37000	< 2.0	< 2.0	< 2.0
Aromatics >EC16-EC21	0.1	0	0	0	0	28000	< 10	< 10	< 10
Aromatics >EC21-EC35	0.1	0	0	0	0	28000	< 10	< 10	< 10
Aromatics >EC35-EC44	0.1	0	0	0	0	28000	< 8.4	< 8.4	< 8.4

ADDITIVITY CHECK		HAZARD QUOTIENTS FOR EACH FRACTION		
	Aliphatics EC5-EC6			
	Aliphatics >EC6-EC8			
Considered additive	Aliphatics >EC8-EC10			
Considered additive	Aliphatics >EC10-EC12			
Considered additive	Aliphatics >EC12-EC16			
	Aliphatics >EC16-EC35			0.000
	Aliphatics >EC35-EC44			
	Aromatics EC5-EC7			
	Aromatics >EC7-EC8			
Considered additive	Aromatics >EC8-EC10			
Considered additive	Aromatics >EC10-EC12			
Considered additive	Aromatics >EC12-EC16			
Considered additive	Aromatics >EC16-EC21			
Considered additive	Aromatics >EC21-EC35			
	Aromatics >EC35-EC44			
	Hazard Index for ali>C8-C16			
	Hazard Index for aro>C8-C16			
	Hazard Index for aro>C16-C35			

Risk parameter: **Human health - commercial (2.5%SOM)**
Data set: Area 1 - Natural soils and Topsoil
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG	
						All values in mg/kg unless otherwise stated Location & Depth	HP01	HP02	WS15	
Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	0.5	0.3	0.3	
Aliphatics EC5-EC6	0.01	0	0	0	0	560	< 0.001	< 0.001	< 0.001	
Aliphatics >EC6-EC8	0.01	0	0	0	0	320	< 0.001	< 0.001	< 0.001	
Aliphatics >EC8-EC10	0.01	0	0	0	0	190	< 0.001	< 0.001	< 0.001	
Aliphatics >EC10-EC12	0.01	1	1.1	1.1	0	120	< 1.0	< 1.0	1.1	
Aliphatics >EC12-EC16	0.1	2	2.1	19	0	59	2.1	< 2.0	19	
Aliphatics >EC16-EC35	0.1	1	432	432	0	480000	< 8.0	< 8.0	432	
Aliphatics >EC35-EC44	0.1	0	0	0	0	480000	< 8.4	< 8.4	73	
Aromatics EC5-EC7	0.01	1	73	73	0	2300	< 8.4	< 8.4	73	
Aromatics >EC7-EC8	0.01	0	0	0	0	1900	< 0.001	< 0.001	< 0.001	
Aromatics >EC8-EC10	0.01	0	0	0	0	1500	< 0.001	< 0.001	< 0.001	
Aromatics >EC10-EC12	0.01	0	0	0	0	900	< 1.0	< 1.0	< 1.0	
Aromatics >EC12-EC16	0.1	1	8.6	8.6	0	10000	< 2.0	< 2.0	8.6	
Aromatics >EC16-EC21	0.1	1	150	150	0	7700	< 10	< 10	150	
Aromatics >EC21-EC35	0.1	2	30	440	0	7800	< 10	30	440	
Aromatics >EC35-EC44	0.1	1	170	170	0	7800	< 8.4	< 8.4	170	

	ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH FRACTION		
	Aliphatics EC5-EC6			
	Aliphatics >EC6-EC8			
Considered additive	Aliphatics >EC8-EC10			
Considered additive	Aliphatics >EC10-EC12			0.009
Considered additive	Aliphatics >EC12-EC16	0.036		0.322
	Aliphatics >EC16-EC35			0.001
	Aliphatics >EC35-EC44			0.000
	Aromatics EC5-EC7			0.032
	Aromatics >EC7-EC8			
Considered additive	Aromatics >EC8-EC10			
Considered additive	Aromatics >EC10-EC12			
Considered additive	Aromatics >EC12-EC16			0.001
Considered additive	Aromatics >EC16-EC21			0.019
Considered additive	Aromatics >EC21-EC35		0.004	0.056
	Aromatics >EC35-EC44			0.022
	Hazard Index for ali>C8-C16			
	Hazard Index for aro>C8-C16			
	Hazard Index for aro>C16-C35			0.076

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: Human health - POS park (2.5%SOM)
Data set: Area 2 - Made Ground soils
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type								
				All values in mg/kg unless otherwise stated		Location & Depth								
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**								
Aliphatics EC5-EC6	0.01	0	0	0	0	560								
Aliphatics >EC6-EC8	0.01	0	0	0	0	320								
Aliphatics >EC8-EC10	0.01	0	0	0	0	190								
Aliphatics >EC10-EC12	0.01	1	1.1	1.1	0	120								
Aliphatics >EC12-EC16	0.1	2	2.1	19	0	59								
Aliphatics >EC16-EC35	0.1	1	432	432	0	480000								
Aliphatics >EC35-EC44	0.1	0	0	0	0	480000								
Aromatics EC5-EC7	0.01	1	73	73	0	2300								
Aromatics >EC7-EC8	0.01	0	0	0	0	1900								
Aromatics >EC8-EC10	0.01	0	0	0	0	1500								
Aromatics >EC10-EC12	0.01	0	0	0	0	900								
Aromatics >EC12-EC16	0.1	1	8.6	8.6	0	10000								
Aromatics >EC16-EC21	0.1	1	150	150	0	7700								
Aromatics >EC21-EC35	0.1	2	30	440	0	7800								
Aromatics >EC35-EC44	0.1	1	170	170	0	7800								

						ADDITIVITY CHECK								
						Aliphatics EC5-EC6								
						Aliphatics >EC6-EC8								
					Considered additive	Aliphatics >EC8-EC10								
					Considered additive	Aliphatics >EC10-EC12								
					Considered additive	Aliphatics >EC12-EC16								
						Aliphatics >EC16-EC35								
						Aliphatics >EC35-EC44								
						Aromatics EC5-EC7								
						Aromatics >EC7-EC8								
					Considered additive	Aromatics >EC8-EC10								
					Considered additive	Aromatics >EC10-EC12								
					Considered additive	Aromatics >EC12-EC16								
					Considered additive	Aromatics >EC16-EC21								
					Considered additive	Aromatics >EC21-EC35								
						Aromatics >EC35-EC44								
						Hazard Index for ali>C8-C16								
						Hazard Index for aro>C8-C16								
						Hazard Index for aro>C16-C35								

Risk parameter: **Human health - POS park (2.5%SOM)**
Data set: Area 2 - Made Ground soils
Client: Db Symmetry Ltd
Site: Hinckley Rail Freight Interchange
Job no.: C-07700-C
Lab. report no(s).: xx-xxxx

Appendix I

Waste Classification

Preliminary assessment of potential waste

Subject to suitable segregation during excavation, natural uncontaminated soil arisings (excluding topsoil and peat) are likely to be classified as non-hazardous and typically would be considered suitable to be accepted at an inert landfill without further Waste Acceptance Criteria (WAC) testing.

As Made Ground soils have been identified, in order to inform the preliminary waste characterisation process, Hydrock has undertaken an exercise using the proprietary web-based tool HazWasteOnline™. The results of the output are included below, and a preliminary waste classification is provided in Section 7.1.2.

With regard to the HazWasteOnline™ and petroleum hydrocarbons, based upon carbon banding of the TPH, the findings of the investigation and the way the petroleum hydrocarbons are distributed within the soil, it is likely that the potential for the soil being hazardous on account of HP3i can be all but discounted. However, this can be confirmed only by subjecting the material to flash-point testing. It would be reasonable to assume that the result would indicate that the soil, would be non-hazardous as a result of the TPH content.

WAC Testing

If soils are to be disposed of to a non-hazardous landfill, WAC testing is not required. However, if soils are to be disposed to an inert landfill or a hazardous landfill, the next stage of assessment is to undertake Waste Acceptance Criteria (WAC) testing. This will determine the landfill category at which the soils can be accepted.

Hazardous material must be subjected to WAC testing to determine whether it requires treatment before it can be accepted at the hazardous landfill while non-hazardous material can be tested to determine whether it may be suitable for placement in an inert landfill.

WAC testing has not been undertaken to date and will be required on the excavated soils that are to be disposed of, to assist waste classification prior to disposal.

HazWasteOnline™ Assessment

Hydrock

HazWasteOnline™

[redacted]

Waste Classification Report

Job name

C-07700 - Hinckley-Rail Freight Interchange

Description/Comments

All data.

Project

C-07700 - Hinckley-Rail Freight Interchange

Site

Hinckley-Rail Freight Interchange

Related Documents

#	Name	Description
None		

Waste Stream Template

Hydrock Standard plus Cresol (ammended Lead)

Classified by

Name:
Andrew Fitzpatrick
Date:
14 Jun 2019 10:47 GMT
Telephone:
07392 086989

Company:
Hydrock Group Limited
Hawthorn Park, Holdenby Road
Spratton
Northampton
NN6 8LD

Report

Created by: Andrew Fitzpatrick
Created date: 14 Jun 2019 10:47 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	HP01	0.50	Non Hazardous		3
2	HP02	0.30	Non Hazardous		6
3	HP03	0.50	Non Hazardous		9
4	HP04	0.30	Non Hazardous		11
5	HP06	0.40	Non Hazardous		13
6	HP06[2]	0.80	Non Hazardous		15
7	HP08	0.30	Hazardous	HP 3(i), HP 7, HP 11	17
8	HP08[2]	0.50	Non Hazardous		20
9	HP09	0.50	Non Hazardous		22
10	HP10	0.20	Non Hazardous		24
11	HP10[2]	0.50	Non Hazardous		27

Classification of sample: HP01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP01
Sample Depth:
0.50 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.9	mg/kg	1.32	10.431	mg/kg	0.00104 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	3.053	mg/kg	0.000305 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5	mg/kg	13.43	6.715	mg/kg	0.000672 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30	mg/kg	1.462	43.847	mg/kg	0.00438 %		

[redacted]

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25	mg/kg	1.126	28.147	mg/kg	0.00281 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		27	mg/kg	1.579	42.646	mg/kg	0.00426 %		
26		pH			PH		9	pH		9	pH	9pH		
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		TPH (C6 to C40) petroleum group			TPH		2.1	mg/kg		2.1	mg/kg	0.00021 %		
31		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		48	mg/kg	1.245	59.746	mg/kg	0.00597 %		
											Total:	0.0215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00021%)

Classification of sample: HP02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP02
Sample Depth:
0.30 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.5 mg/kg	1.32	8.582 mg/kg	0.000858 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.47 mg/kg		0.47 mg/kg	0.000047 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.7 mg/kg		0.7 mg/kg	0.00007 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.8 mg/kg		0.8 mg/kg	0.00008 %		
8	benzo[ghi]perylene		205-883-8	191-24-2		0.55 mg/kg		0.55 mg/kg	0.000055 %		
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.24 mg/kg		0.24 mg/kg	0.000024 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.885 mg/kg	0.000389 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.7 mg/kg	13.43	22.831 mg/kg	0.00228 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.4 mg/kg	1.285	0.514 mg/kg	0.00004 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		86 mg/kg	1.462	125.694 mg/kg	0.0126 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				0.62	mg/kg		0.62	mg/kg	0.000062 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				44	mg/kg	1.126	49.539	mg/kg	0.00495 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				0.88	mg/kg		0.88	mg/kg	0.000088 %		
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	300	mg/kg		300	mg/kg	0.03 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				55	mg/kg	1.579	86.872	mg/kg	0.00869 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
27		phenanthrene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				0.85	mg/kg		0.85	mg/kg	0.000085 %		
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				60	mg/kg		60	mg/kg	0.006 %		
				TPH									
31		zinc { zinc oxide }				260	mg/kg	1.245	323.626	mg/kg	0.0324 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0993 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.006%)

Classification of sample: HP03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP03
Sample Depth:
0.50 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.5	mg/kg	1.32	12.543	mg/kg	0.00125 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.3	mg/kg	2.775	3.608	mg/kg	0.000361 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		8.2	mg/kg	13.43	110.126	mg/kg	0.011 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				27	mg/kg	1.126	30.399	mg/kg	0.00304 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	51	mg/kg		51	mg/kg	0.0051 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				28	mg/kg	1.579	44.226	mg/kg	0.00442 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			204-927-3	129-00-0									
30		zinc { zinc oxide }				86	mg/kg	1.245	107.045	mg/kg	0.0107 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0405 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP04
Sample Depth:
0.30 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.2	mg/kg	1.32	6.866	mg/kg	0.000687 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.63	mg/kg	2.775	1.748	mg/kg	0.000175 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.4	mg/kg	13.43	18.802	mg/kg	0.00188 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				24	mg/kg	1.126	27.021	mg/kg	0.0027 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	21	mg/kg		21	mg/kg	0.0021 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				13	mg/kg	1.579	20.533	mg/kg	0.00205 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
30		zinc { zinc oxide }				52	mg/kg	1.245	64.725	mg/kg	0.00647 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0192 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP06

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP06
Sample Depth:
0.40 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.7	mg/kg	1.32	8.846	mg/kg	0.000885 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.83	mg/kg	2.775	2.304	mg/kg	0.00023 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1	mg/kg	13.43	14.773	mg/kg	0.00148 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21	mg/kg	1.462	30.693	mg/kg	0.00307 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	15.762	mg/kg	0.00158 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	7.9	mg/kg		7.9	mg/kg	0.00079 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				18	mg/kg	1.579	28.431	mg/kg	0.00284 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8	pH		8	pH	8pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				55	mg/kg	1.245	68.459	mg/kg	0.00685 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0184 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP06[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP06[2]
Sample Depth:
0.80 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.2	mg/kg	1.32	8.186	mg/kg	0.000819 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.7	mg/kg	2.775	4.718	mg/kg	0.000472 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		50	mg/kg	1.462	73.078	mg/kg	0.00731 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				18	mg/kg	1.126	20.266	mg/kg	0.00203 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	7.5	mg/kg		7.5	mg/kg	0.00075 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				44	mg/kg	1.579	69.498	mg/kg	0.00695 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				72	mg/kg	1.245	89.619	mg/kg	0.00896 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.029 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP08

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
HP08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.30 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
18% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.527%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.527%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.527%)

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
1		acenaphthene				0.63 mg/kg		0.63 mg/kg	0.000063 %		
			201-469-6	83-32-9							
2		acenaphthylene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
			205-917-1	208-96-8							
3		anthracene				5 mg/kg		5 mg/kg	0.0005 %		
			204-371-1	120-12-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
4		arsenic { arsenic trioxide }				11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
		033-003-00-0	215-481-4	1327-53-3									
5		benzo[a]anthracene				19	mg/kg		19	mg/kg	0.0019 %		
		601-033-00-9	200-280-6	56-55-3									
6		benzo[a]pyrene; benzo[def]chrysene				22	mg/kg		22	mg/kg	0.0022 %		
		601-032-00-3	200-028-5	50-32-8									
7		benzo[b]fluoranthene				23	mg/kg		23	mg/kg	0.0023 %		
		601-034-00-4	205-911-9	205-99-2									
8		benzo[ghi]perylene				12	mg/kg		12	mg/kg	0.0012 %		
			205-883-8	191-24-2									
9		benzo[k]fluoranthene				10	mg/kg		10	mg/kg	0.001 %		
		601-036-00-5	205-916-6	207-08-9									
10		beryllium { beryllium oxide }				1.8	mg/kg	2.775	4.996	mg/kg	0.0005 %		
		004-003-00-8	215-133-1	1304-56-9									
11		boron { boron tribromide/trichloride/trifluoride (combined) }				1.1	mg/kg	13.43	14.773	mg/kg	0.00148 %		
				10294-33-4, 10294-34-5, 7637-07-2									
12		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
13		chromium in chromium(III) compounds { chromium(III) oxide }				17	mg/kg	1.462	24.846	mg/kg	0.00248 %		
			215-160-9	1308-38-9									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				17	mg/kg		17	mg/kg	0.0017 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				44	mg/kg	1.126	49.539	mg/kg	0.00495 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				41	mg/kg		41	mg/kg	0.0041 %		
			205-912-4	206-44-0									
20		fluorene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				11	mg/kg		11	mg/kg	0.0011 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	28	mg/kg		28	mg/kg	0.0028 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				28	mg/kg	1.579	44.226	mg/kg	0.00442 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				6.8	pH		6.8	pH	6.8 pH		
				PH									
27		phenanthrene				14	mg/kg		14	mg/kg	0.0014 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
29		pyrene				37	mg/kg		37	mg/kg	0.0037 %		
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				5267	mg/kg		5267	mg/kg	0.527 %		
				TPH									
31		zinc { zinc oxide }				85	mg/kg	1.245	105.801	mg/kg	0.0106 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.578 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP08[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP08[2]
Sample Depth:
0.50 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.1	mg/kg	1.32	6.734	mg/kg	0.000673 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1	mg/kg	13.43	13.43	mg/kg	0.00134 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				12	mg/kg	1.126	13.511	mg/kg	0.00135 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	9.2	mg/kg		9.2	mg/kg	0.00092 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				22	mg/kg	1.579	34.749	mg/kg	0.00347 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
30		zinc { zinc oxide }				65	mg/kg	1.245	80.906	mg/kg	0.00809 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0207 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP09

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP09
Sample Depth:
0.50 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.1 mg/kg	1.32	4.093 mg/kg	0.000409 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	3.053 mg/kg	0.000305 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1 mg/kg	13.43	14.773 mg/kg	0.00148 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				49	mg/kg	1.126	55.169	mg/kg	0.00552 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	6.3	mg/kg		6.3	mg/kg	0.00063 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				30	mg/kg	1.579	47.385	mg/kg	0.00474 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
30		zinc { zinc oxide }				52	mg/kg	1.245	64.725	mg/kg	0.00647 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0247 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP10
Sample Depth:
0.20 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		0.64 mg/kg		0.64 mg/kg	0.000064 %		
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.6 mg/kg		2.6 mg/kg	0.00026 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.3 mg/kg		2.3 mg/kg	0.00023 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.9 mg/kg		2.9 mg/kg	0.00029 %		
8	benzo[ghi]perylene		205-883-8	191-24-2		1.3 mg/kg		1.3 mg/kg	0.00013 %		
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.76 mg/kg		0.76 mg/kg	0.000076 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1 mg/kg	2.775	2.775 mg/kg	0.000278 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.6 mg/kg	13.43	34.918 mg/kg	0.00349 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.4 mg/kg	1.285	0.514 mg/kg	0.00004 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				51	mg/kg	1.126	57.42	mg/kg	0.00574 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				5.6	mg/kg		5.6	mg/kg	0.00056 %		
			205-912-4	206-44-0									
20		fluorene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	49	mg/kg		49	mg/kg	0.0049 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				25	mg/kg	1.579	39.487	mg/kg	0.00395 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.1	pH		7.1	pH	7.1 pH		
				PH									
27		phenanthrene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				4.9	mg/kg		4.9	mg/kg	0.00049 %		
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				176.5	mg/kg		176.5	mg/kg	0.0177 %		
				TPH									
31		zinc { zinc oxide }				160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0638 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0177%)

Classification of sample: HP10[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP10[2]
Sample Depth:
0.50 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	6.602	mg/kg	0.00066 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.7	mg/kg	2.775	4.718	mg/kg	0.000472 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.7	mg/kg	13.43	22.831	mg/kg	0.00228 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		51	mg/kg	1.462	74.539	mg/kg	0.00745 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	22.518	mg/kg	0.00225 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	8.3	mg/kg		8.3	mg/kg	0.00083 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				45	mg/kg	1.579	71.077	mg/kg	0.00711 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.1	pH		7.1	pH	7.1 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
30		zinc { zinc oxide }				75	mg/kg	1.245	93.354	mg/kg	0.00934 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0311 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP11

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP11
Sample Depth:
0.30 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1	mg/kg	2.775	2.775	mg/kg	0.000278 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.9	mg/kg	13.43	25.517	mg/kg	0.00255 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				19	mg/kg	1.126	21.392	mg/kg	0.00214 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	23	mg/kg		23	mg/kg	0.0023 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				23	mg/kg	1.579	36.328	mg/kg	0.00363 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.2	pH		7.2	pH	7.2 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				78	mg/kg	1.245	97.088	mg/kg	0.00971 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0268 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP13

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
HP13
Sample Depth:
0.30 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.34	mg/kg		0.34	mg/kg	0.000034 %		
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.36	mg/kg		0.36	mg/kg	0.000036 %		
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.44	mg/kg		0.44	mg/kg	0.000044 %		
8		benzo[ghi]perylene		205-883-8	191-24-2		0.31	mg/kg		0.31	mg/kg	0.000031 %		
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.14	mg/kg		0.14	mg/kg	0.000014 %		
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.1	mg/kg	13.43	41.633	mg/kg	0.00416 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	1.2	mg/kg	1.285	1.542	mg/kg	0.00012 %		
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20	mg/kg	1.462	29.231	mg/kg	0.00292 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				260	mg/kg	1.126	292.731	mg/kg	0.0293 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				0.76	mg/kg		0.76	mg/kg	0.000076 %		
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	160	mg/kg		160	mg/kg	0.016 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				22	mg/kg	1.579	34.749	mg/kg	0.00347 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
27		phenanthrene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				0.66	mg/kg		0.66	mg/kg	0.000066 %		
			204-927-3	129-00-0									
30		zinc { zinc oxide }				160	mg/kg	1.245	199.154	mg/kg	0.0199 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0786 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP14

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
HP14	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.30 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		0.13 mg/kg		0.13 mg/kg	0.000013 %		
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.3 mg/kg	1.32	8.318 mg/kg	0.000832 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.77 mg/kg		0.77 mg/kg	0.000077 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.93 mg/kg		0.93 mg/kg	0.000093 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.1 mg/kg		1.1 mg/kg	0.00011 %		
8	benzo[ghi]perylene		205-883-8	191-24-2		0.57 mg/kg		0.57 mg/kg	0.000057 %		
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.32 mg/kg		0.32 mg/kg	0.000032 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.9 mg/kg	2.775	5.273 mg/kg	0.000527 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.7 mg/kg	13.43	49.691 mg/kg	0.00497 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.9 mg/kg	1.285	1.157 mg/kg	0.00009 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.65	mg/kg		0.65	mg/kg	0.000065 %		
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		75	mg/kg	1.126	84.442	mg/kg	0.00844 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
19		fluoranthene		205-912-4	206-44-0		1.6	mg/kg		1.6	mg/kg	0.00016 %		
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
21		indeno[123-cd]pyrene		205-893-2	193-39-5		0.48	mg/kg		0.48	mg/kg	0.000048 %		
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	110	mg/kg		110	mg/kg	0.011 %		
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		28	mg/kg	1.579	44.226	mg/kg	0.00442 %		
26		pH			PH		7.6	pH		7.6	pH	7.6 pH		
27		phenanthrene		201-581-5	85-01-8		0.61	mg/kg		0.61	mg/kg	0.000061 %		
28		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
29		pyrene		204-927-3	129-00-0		1.4	mg/kg		1.4	mg/kg	0.00014 %		
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		530	mg/kg	1.245	659.698	mg/kg	0.066 %		
											Total:	0.101 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP15

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
HP15	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.30 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.236%)
lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 0.11%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2	mg/kg	1.32	10.827	mg/kg	0.00108 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.61	mg/kg	2.775	1.693	mg/kg	0.000169 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	1.6	mg/kg	1.285	2.056	mg/kg	0.00016 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		chromium in chromium(III) compounds { chromium(III) oxide }				20	mg/kg	1.462	29.231	mg/kg	0.00292 %		
			215-160-9	1308-38-9									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				2100	mg/kg	1.126	2364.365	mg/kg	0.236 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	1100	mg/kg		1100	mg/kg	0.11 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				20	mg/kg	1.579	31.59	mg/kg	0.00316 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8	pH		8	pH	8pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				260	mg/kg	1.245	323.626	mg/kg	0.0324 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.388 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP16

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
HP16	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.30 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.9 mg/kg	1.32	7.79 mg/kg	0.000779 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78 mg/kg	2.775	2.165 mg/kg	0.000216 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1 mg/kg	13.43	13.43 mg/kg	0.00134 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	16.888	mg/kg	0.00169 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	17	mg/kg		17	mg/kg	0.0017 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				21	mg/kg	1.579	33.169	mg/kg	0.00332 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				52	mg/kg	1.245	64.725	mg/kg	0.00647 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0194 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP01	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.75 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.6 mg/kg	1.32	11.355 mg/kg	0.00114 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	3.053 mg/kg	0.000305 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6 mg/kg	13.43	21.488 mg/kg	0.00215 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	28.147	mg/kg	0.00281 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	34	mg/kg		34	mg/kg	0.0034 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				21	mg/kg	1.579	33.169	mg/kg	0.00332 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				75	mg/kg	1.245	93.354	mg/kg	0.00934 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0276 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP04 (Combined)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP04 (Combined)	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10-0.30 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.93 mg/kg	2.775	2.581 mg/kg	0.000258 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.2 mg/kg	13.43	16.116 mg/kg	0.00161 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	28.147	mg/kg	0.00281 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	20	mg/kg		20	mg/kg	0.002 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				18	mg/kg	1.579	28.431	mg/kg	0.00284 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				48	mg/kg	1.245	59.746	mg/kg	0.00597 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0208 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP12

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP12	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.3 mg/kg	1.32	10.959 mg/kg	0.0011 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.5 mg/kg	2.775	4.163 mg/kg	0.000416 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.2 mg/kg	13.43	42.976 mg/kg	0.0043 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3 mg/kg	1.285	0.386 mg/kg	0.00003 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		41 mg/kg	1.462	59.924 mg/kg	0.00599 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	23.644	mg/kg	0.00236 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	29	mg/kg		29	mg/kg	0.0029 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				25	mg/kg	1.579	39.487	mg/kg	0.00395 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.1	pH		7.1	pH	7.1 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
31		zinc { zinc oxide }				95	mg/kg	1.245	118.248	mg/kg	0.0118 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0345 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP12[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP12[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.20 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.6 mg/kg	1.32	12.675 mg/kg	0.00127 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.885 mg/kg	0.000389 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.5 mg/kg	13.43	47.005 mg/kg	0.0047 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3 mg/kg	1.285	0.386 mg/kg	0.00003 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		39 mg/kg	1.462	57.001 mg/kg	0.0057 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	22.518	mg/kg	0.00225 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	30	mg/kg		30	mg/kg	0.003 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				25	mg/kg	1.579	39.487	mg/kg	0.00395 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.1	pH		7.1	pH	7.1 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				90	mg/kg	1.245	112.024	mg/kg	0.0112 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0331 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP20	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.75 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.3 mg/kg	1.32	8.318 mg/kg	0.000832 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.99 mg/kg	2.775	2.748 mg/kg	0.000275 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.4 mg/kg	13.43	32.232 mg/kg	0.00322 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.462	43.847 mg/kg	0.00438 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	18.014	mg/kg	0.0018 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	25	mg/kg		25	mg/kg	0.0025 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				20	mg/kg	1.579	31.59	mg/kg	0.00316 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.1	pH		7.1	pH	7.1 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				63	mg/kg	1.245	78.417	mg/kg	0.00784 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0247 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS02	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.40 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.4 mg/kg	1.32	5.809 mg/kg	0.000581 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.96 mg/kg	2.775	2.664 mg/kg	0.000266 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.7 mg/kg	13.43	22.831 mg/kg	0.00228 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	19.14	mg/kg	0.00191 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	16	mg/kg		16	mg/kg	0.0016 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				22	mg/kg	1.579	34.749	mg/kg	0.00347 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				6.9	pH		6.9	pH	6.9 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
31		zinc { zinc oxide }				58	mg/kg	1.245	72.193	mg/kg	0.00722 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0229 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS04	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.50 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2 mg/kg	1.32	10.827 mg/kg	0.00108 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.5 mg/kg	2.775	4.163 mg/kg	0.000416 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8 mg/kg	13.43	10.744 mg/kg	0.00107 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		40 mg/kg	1.462	58.462 mg/kg	0.00585 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.126	33.777	mg/kg	0.00338 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	25	mg/kg		25	mg/kg	0.0025 %		
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		41	mg/kg	1.579	64.759	mg/kg	0.00648 %		
26		pH			PH		7.5	pH		7.5	pH	7.5 pH		
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
31		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		75	mg/kg	1.245	93.354	mg/kg	0.00934 %		
											Total:	0.0318 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS07

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS07	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.30 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1 mg/kg	1.32	12.015 mg/kg	0.0012 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.5 mg/kg	2.775	4.163 mg/kg	0.000416 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.5 mg/kg	13.43	33.575 mg/kg	0.00336 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		39 mg/kg	1.462	57.001 mg/kg	0.0057 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	23.644	mg/kg	0.00236 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	19	mg/kg		19	mg/kg	0.0019 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				35	mg/kg	1.579	55.282	mg/kg	0.00553 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.4	pH		7.4	pH	7.4 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				60	mg/kg	1.245	74.683	mg/kg	0.00747 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0286 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:		LoW Code:	
WS08		Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:			
0.40 m		Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.9	mg/kg	1.32	6.47	mg/kg	0.000647 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.62	mg/kg	2.775	1.721	mg/kg	0.000172 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2	mg/kg	13.43	26.86	mg/kg	0.00269 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22	mg/kg	1.462	32.154	mg/kg	0.00322 %		
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	16.888	mg/kg	0.00169 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	24	mg/kg		24	mg/kg	0.0024 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				13	mg/kg	1.579	20.533	mg/kg	0.00205 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				34	mg/kg		34	mg/kg	0.0034 %		
				TPH									
31		zinc { zinc oxide }				57	mg/kg	1.245	70.949	mg/kg	0.00709 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0241 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0034%)

Classification of sample: WS10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS10
Sample Depth:
0.75 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.7 mg/kg	1.32	8.846 mg/kg	0.000885 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.68 mg/kg	2.775	1.887 mg/kg	0.000189 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.5 mg/kg	13.43	20.145 mg/kg	0.00201 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				28	mg/kg	1.126	31.525	mg/kg	0.00315 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	18	mg/kg		18	mg/kg	0.0018 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				14	mg/kg	1.579	22.113	mg/kg	0.00221 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				6.8	pH		6.8	pH	6.8 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
31		zinc { zinc oxide }				51	mg/kg	1.245	63.48	mg/kg	0.00635 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0213 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS11

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS11
Sample Depth:
0.30 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.45 mg/kg		0.45 mg/kg	0.000045 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.5 mg/kg		0.5 mg/kg	0.00005 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.53 mg/kg		0.53 mg/kg	0.000053 %		
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.23 mg/kg		0.23 mg/kg	0.000023 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78 mg/kg	2.775	2.165 mg/kg	0.000216 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.6 mg/kg	13.43	34.918 mg/kg	0.00349 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3 mg/kg	1.285	0.386 mg/kg	0.00003 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				37	mg/kg	1.126	41.658	mg/kg	0.00417 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
19		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
20		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	49	mg/kg		49	mg/kg	0.0049 %		
		082-001-00-6											
21		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
22		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
23		nickel { nickel dihydroxide }				16	mg/kg	1.579	25.272	mg/kg	0.00253 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
24		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
25		phenanthrene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
			201-581-5	85-01-8									
26		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
27		pyrene				0.82	mg/kg		0.82	mg/kg	0.000082 %		
			204-927-3	129-00-0									
28		zinc { zinc oxide }				99	mg/kg	1.245	123.227	mg/kg	0.0123 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0323 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS13

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS13
Sample Depth:
0.50 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.7 mg/kg	1.32	10.167 mg/kg	0.00102 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	3.053 mg/kg	0.000305 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1 mg/kg	13.43	13.43 mg/kg	0.00134 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	19.14	mg/kg	0.00191 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
19		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
20		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		11	mg/kg	0.0011 %		
		082-001-00-6											
21		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
22		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
23		nickel { nickel dihydroxide }				27	mg/kg	1.579	42.646	mg/kg	0.00426 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
24		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
25		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
26		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
27		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
28		zinc { zinc oxide }				44	mg/kg	1.245	54.767	mg/kg	0.00548 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0202 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS14

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS14
Sample Depth:
0.30 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		0.12 mg/kg		0.12 mg/kg	0.000012 %		
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4 mg/kg	1.32	9.77 mg/kg	0.000977 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.57 mg/kg		0.57 mg/kg	0.000057 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.75 mg/kg		0.75 mg/kg	0.000075 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.8 mg/kg		0.8 mg/kg	0.00008 %		
8	benzo[ghi]perylene		205-883-8	191-24-2		0.49 mg/kg		0.49 mg/kg	0.000049 %		
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.43 mg/kg		0.43 mg/kg	0.000043 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.88 mg/kg	2.775	2.442 mg/kg	0.000244 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.3 mg/kg	13.43	44.319 mg/kg	0.00443 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				19	mg/kg	1.126	21.392	mg/kg	0.00214 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	35	mg/kg		35	mg/kg	0.0035 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				19	mg/kg	1.579	30.01	mg/kg	0.003 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				6.9	pH		6.9	pH	6.9 pH		
				PH									
27		phenanthrene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			204-927-3	129-00-0									
30		zinc { zinc oxide }				76	mg/kg	1.245	94.598	mg/kg	0.00946 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0287 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS15

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
WS15	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.30 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.241%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.241%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.241%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.95 mg/kg		0.95 mg/kg	0.000095 %		
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		1.8 mg/kg		1.8 mg/kg	0.00018 %		
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.9 mg/kg	1.32	7.79 mg/kg	0.000779 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
5		benzo[a]anthracene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
		601-033-00-9	200-280-6	56-55-3									
6		benzo[a]pyrene; benzo[def]chrysene				7.4	mg/kg		7.4	mg/kg	0.00074 %		
		601-032-00-3	200-028-5	50-32-8									
7		benzo[b]fluoranthene				7.3	mg/kg		7.3	mg/kg	0.00073 %		
		601-034-00-4	205-911-9	205-99-2									
8		benzo[ghi]perylene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
			205-883-8	191-24-2									
9		benzo[k]fluoranthene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
		601-036-00-5	205-916-6	207-08-9									
10		beryllium { beryllium oxide }				0.73	mg/kg	2.775	2.026	mg/kg	0.000203 %		
		004-003-00-8	215-133-1	1304-56-9									
11		boron { boron tribromide/trichloride/trifluoride (combined) }				2	mg/kg	13.43	26.86	mg/kg	0.00269 %		
				10294-33-4, 10294-34-5, 7637-07-2									
12		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
13		chromium in chromium(III) compounds { chromium(III) oxide }				19	mg/kg	1.462	27.77	mg/kg	0.00278 %		
			215-160-9	1308-38-9									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				27	mg/kg	1.126	30.399	mg/kg	0.00304 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.92	mg/kg		0.92	mg/kg	0.000092 %		
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				15	mg/kg		15	mg/kg	0.0015 %		
			205-912-4	206-44-0									
20		fluorene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	18	mg/kg		18	mg/kg	0.0018 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				18	mg/kg	1.579	28.431	mg/kg	0.00284 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
27		phenanthrene				6.6	mg/kg		6.6	mg/kg	0.00066 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				13	mg/kg		13	mg/kg	0.0013 %		
			204-927-3	129-00-0									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
30		TPH (C6 to C40) petroleum group		TPH		2408.7	mg/kg		2408.7	mg/kg	0.241 %		
31		zinc { zinc oxide }				58	mg/kg	1.245	72.193	mg/kg	0.00722 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.271 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS17

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:		LoW Code:	
WS17		Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:			
0.50 m		Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.9	mg/kg	1.32	9.11	mg/kg	0.000911 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4	mg/kg	2.775	3.885	mg/kg	0.000389 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1	mg/kg	13.43	14.773	mg/kg	0.00148 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		37	mg/kg	1.462	54.078	mg/kg	0.00541 %		
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	22.518	mg/kg	0.00225 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	16	mg/kg		16	mg/kg	0.0016 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				35	mg/kg	1.579	55.282	mg/kg	0.00553 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.4	pH		7.4	pH	7.4 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				57	mg/kg	1.245	70.949	mg/kg	0.00709 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS19

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS19	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.8 mg/kg	1.32	10.299 mg/kg	0.00103 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.73 mg/kg	2.775	2.026 mg/kg	0.000203 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6 mg/kg	13.43	21.488 mg/kg	0.00215 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.2 mg/kg	1.285	0.257 mg/kg	0.00002 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	15.762	mg/kg	0.00158 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	23	mg/kg		23	mg/kg	0.0023 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				55	mg/kg	1.245	68.459	mg/kg	0.00685 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0208 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS22

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:		LoW Code:	
WS22		Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:			
0.30 m		Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.76 mg/kg	2.775	2.109 mg/kg	0.000211 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.3 mg/kg	13.43	17.459 mg/kg	0.00175 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	22.518	mg/kg	0.00225 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	25	mg/kg		25	mg/kg	0.0025 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				50	mg/kg	1.245	62.236	mg/kg	0.00622 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0216 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS26

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
WS26	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.35 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.881%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.881%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.881%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
2		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
3		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
4		arsenic { arsenic trioxide }				5.6	mg/kg	1.32	7.394	mg/kg	0.000739 %		
		033-003-00-0	215-481-4	1327-53-3									

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.62	mg/kg	2.775	1.721	mg/kg	0.000172 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6	mg/kg	13.43	21.488	mg/kg	0.00215 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3	mg/kg	1.285	0.386	mg/kg	0.00003 %		
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %		
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32	mg/kg	1.126	36.028	mg/kg	0.0036 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15	mg/kg		15	mg/kg	0.0015 %		
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
26		pH			PH		7.3	pH		7.3	pH	7.3 pH		
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
30		TPH (C6 to C40) petroleum group				8810.4	mg/kg		8810.4	mg/kg	0.881 %		
				TPH									
31		zinc { zinc oxide }				57	mg/kg	1.245	70.949	mg/kg	0.00709 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.902 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS27

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
WS27	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.20 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to hazardous because The sample is wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.784%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.784%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.784%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
2		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
3		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
4		arsenic { arsenic trioxide }				4.3	mg/kg	1.32	5.677	mg/kg	0.000568 %		
		033-003-00-0	215-481-4	1327-53-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
5		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
6		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
7		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
8		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
9		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
10		beryllium { beryllium oxide }				0.53	mg/kg	2.775	1.471	mg/kg	0.000147 %		
		004-003-00-8	215-133-1	1304-56-9									
11		boron { boron tribromide/trichloride/trifluoride (combined) }				1.7	mg/kg	13.43	22.831	mg/kg	0.00228 %		
				10294-33-4, 10294-34-5, 7637-07-2									
12		cadmium { cadmium sulfide }			1	0.4	mg/kg	1.285	0.514	mg/kg	0.00004 %		
		048-010-00-4	215-147-8	1306-23-6									
13		chromium in chromium(III) compounds { chromium(III) oxide }				20	mg/kg	1.462	29.231	mg/kg	0.00292 %		
			215-160-9	1308-38-9									
14		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	32.651	mg/kg	0.00327 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	21	mg/kg		21	mg/kg	0.0021 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
30		TPH (C6 to C40) petroleum group		TPH		7835.1	mg/kg		7835.1	mg/kg	0.784 %		
31		zinc { zinc oxide }				85	mg/kg	1.245	105.801	mg/kg	0.0106 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.809 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS27[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS27[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.50 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.3 mg/kg	1.32	6.998 mg/kg	0.0007 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78 mg/kg	2.775	2.165 mg/kg	0.000216 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6 mg/kg	13.43	21.488 mg/kg	0.00215 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	15.762	mg/kg	0.00158 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		11	mg/kg	0.0011 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
31		zinc { zinc oxide }				56	mg/kg	1.245	69.704	mg/kg	0.00697 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0204 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS28

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS28	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.30 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		0.2 mg/kg		0.2 mg/kg	0.00002 %		
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		1.5 mg/kg		1.5 mg/kg	0.00015 %		
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		4 mg/kg		4 mg/kg	0.0004 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4 mg/kg		4 mg/kg	0.0004 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		4 mg/kg		4 mg/kg	0.0004 %		
8	benzo[ghi]perylene		205-883-8	191-24-2		2.2 mg/kg		2.2 mg/kg	0.00022 %		
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		2 mg/kg		2 mg/kg	0.0002 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.86 mg/kg	2.775	2.387 mg/kg	0.000239 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1 mg/kg	13.43	13.43 mg/kg	0.00134 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				31	mg/kg	1.126	34.903	mg/kg	0.00349 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				8.6	mg/kg		8.6	mg/kg	0.00086 %		
			205-912-4	206-44-0									
20		fluorene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	40	mg/kg		40	mg/kg	0.004 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				18	mg/kg	1.579	28.431	mg/kg	0.00284 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				11.3	pH		11.3	pH	11.3 pH		
				PH									
27		phenanthrene				4.9	mg/kg		4.9	mg/kg	0.00049 %		
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				7.4	mg/kg		7.4	mg/kg	0.00074 %		
			204-927-3	129-00-0									
30		zinc { zinc oxide }				130	mg/kg	1.245	161.813	mg/kg	0.0162 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0377 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS30	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.20 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.5 mg/kg	1.32	5.941 mg/kg	0.000594 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.48 mg/kg	2.775	1.332 mg/kg	0.000133 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.9 mg/kg	13.43	25.517 mg/kg	0.00255 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	15.762	mg/kg	0.00158 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	22	mg/kg		22	mg/kg	0.0022 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				11	mg/kg	1.579	17.374	mg/kg	0.00174 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				54	mg/kg	1.245	67.215	mg/kg	0.00672 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0185 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS31

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS31	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.30 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.3 mg/kg	1.32	6.998 mg/kg	0.0007 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.99 mg/kg	2.775	2.748 mg/kg	0.000275 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.3 mg/kg	13.43	17.459 mg/kg	0.00175 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.462	42.385 mg/kg	0.00424 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	14.637	mg/kg	0.00146 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	9.8	mg/kg		9.8	mg/kg	0.00098 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				24	mg/kg	1.579	37.908	mg/kg	0.00379 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				52	mg/kg	1.245	64.725	mg/kg	0.00647 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0203 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS32

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS32	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.3 mg/kg	1.32	4.357 mg/kg	0.000436 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.57 mg/kg	2.775	1.582 mg/kg	0.000158 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1 mg/kg	13.43	14.773 mg/kg	0.00148 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	14.637	mg/kg	0.00146 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	15	mg/kg		15	mg/kg	0.0015 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				15	mg/kg	1.579	23.692	mg/kg	0.00237 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.2	pH		7.2	pH	7.2 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
31		zinc { zinc oxide }				65	mg/kg	1.245	80.906	mg/kg	0.00809 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0199 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS35

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:		LoW Code:	
WS35		Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:			
0.10 m		Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2	mg/kg	1.32	10.827	mg/kg	0.00108 %		
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.96	mg/kg	2.775	2.664	mg/kg	0.000266 %		
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.4	mg/kg	13.43	32.232	mg/kg	0.00322 %		
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3	mg/kg	1.285	0.386	mg/kg	0.00003 %		
13		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31	mg/kg	1.462	45.308	mg/kg	0.00453 %		
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				19	mg/kg	1.126	21.392	mg/kg	0.00214 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	23	mg/kg		23	mg/kg	0.0023 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				22	mg/kg	1.579	34.749	mg/kg	0.00347 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.2	pH		7.2	pH	7.2 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				68	mg/kg	1.245	84.641	mg/kg	0.00846 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0262 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS37

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS37	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.20 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1 mg/kg	2.775	2.775 mg/kg	0.000278 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.5 mg/kg	13.43	33.575 mg/kg	0.00336 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32 mg/kg	1.462	46.77 mg/kg	0.00468 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				18	mg/kg	1.126	20.266	mg/kg	0.00203 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	24	mg/kg		24	mg/kg	0.0024 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				28	mg/kg	1.579	44.226	mg/kg	0.00442 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.1	pH		7.1	pH	7.1 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
30		zinc { zinc oxide }				74	mg/kg	1.245	92.109	mg/kg	0.00921 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0282 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS39

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS39	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.7 mg/kg	1.32	10.167 mg/kg	0.00102 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.3 mg/kg	2.775	3.608 mg/kg	0.000361 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		4.1 mg/kg	13.43	55.063 mg/kg	0.00551 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<**LOD**
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		37 mg/kg	1.462	54.078 mg/kg	0.00541 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
16		copper { dicopper oxide; copper (I) oxide }				19	mg/kg	1.126	21.392	mg/kg	0.00214 %		
		029-002-00-X	215-270-7	1317-39-1									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
18		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	29	mg/kg		29	mg/kg	0.0029 %		
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				23	mg/kg	1.579	36.328	mg/kg	0.00363 %		
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.4	pH		7.4	pH	7.4 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
29		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
30		zinc { zinc oxide }				85	mg/kg	1.245	105.801	mg/kg	0.0106 %		
		030-013-00-7	215-222-5	1314-13-2									
										Total:	0.0322 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS41

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS41	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.40 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.72 mg/kg	2.775	1.998 mg/kg	0.0002 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1 mg/kg	13.43	14.773 mg/kg	0.00148 %		
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3 mg/kg	1.285	0.386 mg/kg	0.00003 %		
13	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19	mg/kg	1.126	21.392	mg/kg	0.00214 %		
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		fluoranthene		205-912-4	206-44-0		0.43	mg/kg		0.43	mg/kg	0.000043 %		
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	29	mg/kg		29	mg/kg	0.0029 %		
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
26		pH			PH		7.2	pH		7.2	pH	7.2 pH		
27		phenanthrene		201-581-5	85-01-8		0.18	mg/kg		0.18	mg/kg	0.000018 %		
28		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
29		pyrene		204-927-3	129-00-0		0.41	mg/kg		0.41	mg/kg	0.000041 %		
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		90	mg/kg	1.245	112.024	mg/kg	0.0112 %		
											Total:	0.0257 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non CLP determinands

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 17 Jul 2015
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: [redacted]
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Conversion factor: 13.43
Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Hazard Statements: Skin Corr. 1B H314 , Skin Corr. 1A H314 , Acute Tox. 2 H300 , Acute Tox. 2 H330 , EUH014

chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

lead compounds with the exception of those specified elsewhere in this Annex

CLP index number: 082-001-00-6
Description/Comments: Least-worst case: Lead REACH Consortium considers some lead compounds Carcinogenic category 2B
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium [redacted] Review date 29/09/2015

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: [redacted]
Data source date: 06 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: [redacted]
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

beryllium {beryllium oxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

chromium in chromium(III) compounds {chromium(III) oxide}

Worst case species based on hazard statements

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

zinc {zinc oxide}

Worst case species based on hazard statements

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018
HazWasteOnline Classification Engine Version: 2019.163.3889.7904 (12 Jun 2019)
HazWasteOnline Database: 2019.163.3889.7904 (12 Jun 2019)

This classification utilises the following guidance and legislation:
WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

Appendix J

Preliminary Geotechnical Risk Register

Geotechnical Hazard Identification – Desk Study Stage

Potential geotechnical hazards have been assessed in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and HD 22/08. The following pages set out the identified geotechnical risks and hazards which are associated with the proposed development and establish the approach which is to be taken to manage the risks including the geotechnical input and analysis.

Table J.1 is a preliminary assessment of possible geotechnical hazards at the site at Desk Study stage. This information is used to assist with site investigation design.

Table J.1: Possible geotechnical hazards- Zones 1 to 4

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Uncontrolled Made Ground (variable strength and compressibility).	Made Ground likely to be present in developed areas.	✔	-
Soft / loose compressible ground (low strength and high settlement potential).	Geological maps record alluvium soils on site.	✔	-
Shrink swell of the clay fraction of soils under the influence of vegetation.	Geological maps record clay soils on site. Clay soils have the potential to heave.	✔	-
Variable lateral and vertical changes in ground conditions.	Geological maps indicated variability in ground conditions across the site.	✔	-
Elevated sulfates present in the soils.	There is a plausible risk from sulphates which requires further investigation.	-	✔
Adverse chemical ground conditions, (e.g. expansive slag).	No indication in the desk study or historical investigation of slag at the site.	✔	-
Obstructions.	Historical development on the site.	✔	-
Existing below ground structures to remain (road infrastructure, rail infrastructure, bridges and foundations).	Infrastructure to remain	✔	-
High groundwater.	High ground water potentially on site.	✔	-
Changing groundwater conditions.	Groundwater levels are likely to fluctuate with seasonal variations.	✔	-
Risk from erosion.	Low risk from the water features on site.	✔	-
Risk from flooding.	The north-west corner of the site in the Zone 1 is classed as a Zone 2 floodplain where the risk of flooding is classed as High.	✔	-

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	Geological maps indicate granular soils are present on site.	✔	-
Slope stability issues – general slopes.	Retaining structures are likely to be required on site.	✔	-
Slope stability issues – retaining walls.			
Earthworks – settlement (due to placement of fill on soft / loose ground).	Earthworks are required on site. There is the potential of areas to comprise soft/loose soils.	✔	-
Earthworks – poor bearing capacity of new fill.			
Earthworks – unsuitability of site won material to be reused as fill.	The soils to be cut are likely to comprise soft clays. These may require improvement to allow earthworks.	✔	-
Problematic soils (silts and rewetting etc.).	Whilst there are likely to be silts present, they will not be the dominant soil type, but will form a subtype in the River terrace Deposits. Not considered a significant risk.	✔	-

Table E.1: Possible geotechnical hazards identified in Zone 5

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Uncontrolled Made Ground (variable strength and compressibility).	Made Ground likely to be present.	✓	-
Soft / loose compressible ground (low strength and high settlement potential).	Alluvium likely to be present in close proximity to the tributary of the River Soar	✓	-
Shrink swell of the clay fraction of soils under the influence of vegetation.	Geological maps record clay soils on site. Clay soils have the potential to heave.	✓	-
Variable lateral and vertical changes in ground conditions.	Geological maps indicated variability in ground conditions across the site.	✓	-
Elevated sulfates present in the soils.	There is a plausible risk from sulphates which requires further investigation.	✓	-
Adverse chemical ground conditions, (e.g. expansive slag).	No indication in the desk study or historical investigation of slag at the site.	-	✓
Obstructions.	Historical development on the site.	✓	-
Existing below ground structures to remain (road infrastructure, rail infrastructure, bridges and foundations).	Any below ground structures are likely to be small in extent and removed during the works. No significant adjacent structures other than and highway.	-	✓
Shallow groundwater.	Shallow ground water is anticipated around existing water features.	✓	-
Changing groundwater conditions.	Groundwater levels are likely to fluctuate with seasonal variations.	✓	-
Risk from erosion.	Erosion may occur along the tributary of River Soar.	✓	-
Risk from flooding.	Zone 5 is not within in a flood risk area.	-	✓
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	Granular soils may be present due to water features on site.	✓	-
Slope stability issues – general slopes.	There will be significant cut and fill across area 1 and 4 which will require the construction of cut slopes	✓	-

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
	and embankments which may encroach into area 5.		
Slope stability issues – retaining walls.	There will be significant cut and fill across area 1 and 4 which will require the construction of retaining walls which may encroach into area 5.	✔	-
Earthworks – settlement (due to placement of fill on soft / loose ground).	The majority of the soils are likely to be suitable for reuse.	✔	-
Earthworks – poor bearing capacity of new fill.			
Earthworks – unsuitability of site won material to be reused as fill.	The majority of the soils are likely to be suitable for reuse.	✔	-
Problematic soils (silts and rewetting etc.).	Whilst there are likely to be silts present, they will not be the dominant soil type, but will form a subtype in the River terrace Deposits. Not considered a significant risk.	✔	-

Geotechnical Hazard Identification – Following Site Investigation

The preliminary Geotechnical Risk Register following Site Investigation is set out in Table J.3.

The probability and impact of a hazard have been judged on a qualitative scale as set out in Table J.2. The degree of risk (R) is determined by combining tan assessment of the probability (P) of the hazard occurring with an assessment of the impact (I) of the hazard and associated mitigation it will require if it occurs (R = P x I).

Table J.2: Qualitative assessment of hazards and risks

P = Probability			I = Impact			R = Risk Rating (P x I)	
1	Very unlikely (VU)		1	Very Low		1 – 4	None / negligible
2	Unlikely (U)		2	Low		5 – 9	Minor
3	Plausible(P)		3	Medium		10 – 14	Moderate
4	Likely (Lk)		4	High		15 – 19	Substantial
5	Very Likely (VLk)		5	Very High		20 - 25	Severe

Table B.2: Preliminary geotechnical risk register for Zones 1 to 4

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Uncontrolled Made Ground (variable strength and compressibility).	There is Made Ground due to historical construction activity and landfilling at the site. The Made Ground is generally 1.0m thick with areas of development.	Commercial / industrial buildings	Bearing capacity failure, settlement (total and differential). Floor slab failure.	2	4	8	Made Ground is unsuitable to remain beneath buildings due to high organic contents within the soils.
		Roads and Pavements.	Settlement (total and differential) of roads and pavements.	2	2	4	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. May be suitable for use beneath roads subject to further investigation and geotechnical design report (GDR).
		Services.	Settlement (differential), causing damage to services.	1	2	2	Anticipated settlements are significant with regard to services. There is a requirement to improve the Made Ground prior to installation of services.
		Landscaping	Settlement (differential), in landscape areas.	1	2	2	It is unlikely that settlements will be significant with regard to landscape areas.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	1	3	3	Where soft spots encountered, over-excavation and replacement with suitable fill. Outline design of working platform to include geo-grid. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

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Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Soft / loose ground (low strength and high settlement potential).	The shallow natural soils include Alluvial deposit	Commercial / industrial buildings	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Alluvium should be removed from beneath foundations due to high organic matter.
			Floor slab failure.				Design floor slab as suspended if Alluvium is present.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	2	3	6	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils.
		Services.	Settlement (differential), causing damage to services.	1	3	3	Anticipated settlements are significant with regard to services. There is a requirement to improve the Made Ground prior to installation of services.
		Landscaping	Settlement (differential), in landscape areas.	1	3	3	It is unlikely that settlements will be significant with regard to landscape areas.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	1	3	3	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

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Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Shrinkage/swelling of the clay fraction of soils under the influence of vegetation.	The underlying soils are predominantly of medium volume change potential.	Foundations.	Shrinkage or heave of soils and associated damage to foundations.	3	3	9	Foundations are likely to be within engineered fill, Bosworth Clay Member and Thrussington Member at depths of 1.0m bgl. Floor slabs to be suspended or remove/treat compressible soils.
		Floor slabs.	Floor slab failure.	2	4	8	
Variable lateral and vertical changes in ground conditions.	The Made Ground soils vary laterally and vertically, both in composition and strength. The shallow soils include River Terrace Deposits, which vary laterally and vertically between soft clay, and sand and gravel with a loose relative density.	Commercial / Industrial Buildings	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Design foundations to found within the Bosworth Clay Member, Thrussington Member and engineered fill. If Made Ground and/or Alluvium remain in place, Foundations to penetrate the strata.
			Floor slab failure.	3	4	12	Design floor slab as suspended or remove/treat compressible soils.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	2	3	6	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace unsuitable soils.
		Services.	Settlement (differential), causing damage to services.	2	3	6	Settlements are not anticipated to be significant with regard to services if placed within engineered fill or the Bosworth Clay Member and Thrussington Member deposits.
		Landscape Areas.	Settlement (differential), landscaping	1	3	3	Bunds will be present across the site. If anticipated settlements are significant, bunds and slopes to be engineered in accordance with a Geotechnical Design Report.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

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Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Obstructions.	There is a potential for obstructions to be present due to historical construction activity, or unknown fill in Made Ground.	Construction staff, vehicles and plant operators.	Risk of collapse of excavation as obstructions are pulled out.	1	3	3	Undertake Enablement Works and remove all obstructions.
		Roads and Pavements.	Hard spots in externals and roads / pavements.	1	2	2	
		Commercial buildings.	Impact on piling / VSC, resulting in additional piles / columns and redesign of foundations.	1	3	3	
Changing groundwater conditions.	Monitoring during the site investigation has proven that the groundwater table is variable (range from 0.44m bgl to 4.68m bgl).	Construction staff, vehicles and plant operators.	Difficulty with excavation. Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	2	2	4	Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of, and requirements for, dewatering of excavations. Any water that collects at the base of excavations to be removed as soon as practicable.
		Slopes and retaining structures.	Serviceability issues.	2	2	4	Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. Design drainage for retaining walls to account for fluctuating groundwater levels. The variable, and locally shallow, groundwater is to be taken into account during geotechnical design of the permanent works.
Cont…							

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Subject to risk from erosion.	Thurlaston Brook Catchment / River Soar is present in the centre and southern part of the site.	The entire development.	Damage to houses, landscape areas, roads and services.	2	4	8	Slopes to be designed at stable angle. Slopes to be designed with erosion matting to prevent scouring.
Subject to risk from flooding.	The majority of the site is in Flood Zone 1. However, along the north eastern part of zone 1 boundary is in Flood Zone 2 and Flood Zone 3.	Area 1.	Damage to houses, landscape areas, roads and services.	3	4	12	The site is partially located within a Flood Zone 3, and as such is at risk of flooding. The development and design of the site needs to take into account the risk of flooding.
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	The site investigation has indicated that there is a potential for loose soils and Made Ground to be present at the site.	Construction staff, vehicles and plant operators.	Ground failure, instability of plant and machinery.	2	4	8	As instability has been noted in pits within the Made Ground and should be expected within the Alluvium, Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Design to include recommendations for inspection of excavations. No person entry to unsupported excavations. Further investigation to determine the properties of the Woolston Sand and Gravel deposits.
			Risk of collapse of excavation.	2	3	6	
Slope stability issues – General Slopes.	The site is on sloping ground and the proposed development requires slopes to be formed as part of the cut-to-fill.	Commercial / Industrial Buildings	Serviceability issues.	5	4	20	Safe slope angles to be assessed during design. Engineered fill requirements to be defined at outline design stage. Drainage requirements to be assessed during design. Slopes to be constructed at a safe angle. Formation level to be inspected.
		Roads and pavements.		5	3	15	
		Soft landscaping		5	2	10	

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Slope stability issues – retaining walls.	The site is on sloping ground and the proposed development requires retaining walls to be constructed.	Commercial / Industrial Buildings		4	4	16	Design of the retaining to be undertaken in accordance with EC7. Adequate drainage to be designed behind the structure, or for water seepage through the face of the wall. Lateral earth pressure parameters to be characterised during investigation and design. Engineered fill requirements to be defined at outline design stage.
		Pavement construction and long-term durability highways and external areas.		4	3	12	
		Soft Landscaping		4	2	8	
		Construction staff, vehicles and plant operators.	Potential for future movements / collapse.	3	4	12	
Earthworks – Settlement (due to placement of fill on soft / loose ground / Deep Made Ground).	The ground conditions at the site include up to 5m of soft Landfill material. Levels are increasing by up to 12m to allow creation of development plateaus and bunds.	Commercial / Industrial Buildings	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Design foundations to found within engineered fill or firm to stiff soils of the Oadby Member. If Made Ground and Alluvium is left beneath plots then piled foundations will need to penetrate through the Made Ground and Alluvium
			Floor slab failure.	4	4	16	Design floor slab as suspended or remove/treat compressible soils.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	2	3	6	Settlements are not anticipated to be significant with regard to roads and pavements within engineered fill or the Oadby Member. Should the underlying soils consist of alluvium or Made Ground mitigation measures would be required. Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate.
		Services.	Settlement (differential), causing damage to services.	2	3	6	Settlements are not anticipated to be significant with regard to services.

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
		Soft Landscaping	Settlement (differential), in soft landscaping	2	3	6	Assess the use of geogrids as part of the design process. Undertake ground improvement to reduce settlements in areas of soft ground.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Earthworks – poor bearing capacity of new fill.	There is a requirement for cut-to-fill to create the development platform and filling of remediation excavations. This will require reuse of soils excavated from the site.	Commercial / Industrial Buildings	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Geotechnical Design Report to provide suitable specification for founding within engineered fill or the Bosworth Clay Member, Thrussington Member.
			Floor slab failure.	4	4	16	Design floor slab as suspended or remove/treat compressible soils.
		Roads and Pavements.	Settlement (total and differential).	3	3	9	Minimum engineering performance to be defined in an Earthworks Specification. Earthworks to be designed in accordance with 1) Manual of Contract Documents for Highway Works (MCHW), Volume 1; 2) Specification for Highway Works (SHW) Series 600; 3) 6031:2009, Code of practice for earthworks; and 4) BS 8000-1, workmanship on building sites. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification.
		Services.	Settlement (differential), causing damage to services.	2	3	6	
		Soft Landscaping	Settlement (differential), in areas of soft landscaping	2	3	6	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Earthworks – Unsuitability of site won material to be reused as fill.	There is a requirement for cut-to-fill to create the development platform and filling of remediation excavations. This will require reuse of soils excavated from the site.	Earthworks control, inability to place and compact fill.	Service limit state failure, excessive and intolerable total and differential settlement.	4	3	12	The design is to describe the processes required to produce suitable fill for reuse. Contractor to design site control measures, plant, equipment and arrangement to comply with processing requirements. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification to be undertaken. Adequate investigation required of soil types and characterisation of the soils to be undertaken during investigation. Some site-won material may be unsuitable for reuse.
		Project Budgets - Insufficient fill to complete earthworks.	Additional costs, due to importation of fill or having to modify designs.	2	2	4	
Cont…							

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Problematic soils (silts and rewetting etc.).	Higher silt fractions are present within the Alluvial deposits	Commercial / Industrial Buildings	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Design foundations to found below any problematic soils.
			Floor slab failure.	3	4	12	Design floor slab as suspended or remove/treat compressible soils.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	3	9	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils or undertake ground improvement.
		Services.	Settlement (differential), causing damage to services.	2	3	6	Ground levels are being raised and settlements are anticipated to be significant. Ground improvement may be required to reduce post-construction settlements to tolerable levels.
		Soft Landscaping	Settlement (differential), in areas of soft landscaping	2	3	6	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	3	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construction process.

Impacts of the design with regard to health and Safety considerations will need to be included by the designer at design stage.

Table B.2: Preliminary geotechnical risk register for Zone 5

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Uncontrolled Made Ground (variable strength and compressibility).	No Made Ground encountered during preliminary investigations.	Commercial / industrial buildings	Bearing capacity failure, settlement (total and differential).	3	4	12	Made Ground is unsuitable to remain beneath buildings due to high organic contents within the soils.
			Floor slab failure.				
		Roads and Pavements.	Settlement (total and differential) of roads and pavements.	3	2	6	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. May be suitable for use beneath roads subject to further investigation and geotechnical design report (GDR).
		Services.	Settlement (differential), causing damage to services.	3	2	6	Anticipated settlements are significant with regard to services. There is a requirement to improve the Made Ground prior to installation of services.
		Landscaping	Settlement (differential), in landscape areas.	3	2	6	It is unlikely that settlements will be significant with regard to landscape areas.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	2	3	6	Where soft spots encountered, over-excavation and replacement with suitable fill. Outline design of working platform to include geo-grid. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
							Further investigation work to confirm initial preliminary findings.

Cont……

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Soft / loose ground (low strength and high settlement potential).	No significant soft / loose ground encountered during preliminary investigations.	Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	3	9	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils.
		Services.	Settlement (differential), causing damage to services.	3	3	9	Anticipated settlements are significant with regard to services. There is a requirement to improve the Made Ground prior to installation of services.
		Landscaping	Settlement (differential), in landscape areas.	3	3	9	It is unlikely that settlements will be significant with regard to landscape areas.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	2	3	6	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
							Further investigation work to confirm initial preliminary findings.
Shrinkage/swelling of the clay fraction of soils under the influence of vegetation.	The underlying soils are predominantly of medium volume change potential.	Foundations.	Shrinkage or heave of soils and associated damage to foundations.	3	3	9	Foundations are likely to be within engineered fill, Bosworth Clay Member and Thrussington Member at depths of 1.0m bgl.
Cont…							

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Variable lateral and vertical changes in ground conditions.	The Made Ground soils vary laterally and vertically, both in composition and strength. The shallow soils include River Terrace Deposits, which vary laterally and vertically between soft clay, and sand and gravel with a loose relative density.	Commercial / Industrial Buildings	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Design foundations to found within the Bosworth Clay Member, Thrussington Member and engineered fill. Foundations to penetrate any Made Ground and/or Alluvium deposits.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	3	9	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace unsuitable soils.
		Services.	Settlement (differential), causing damage to services.	2	3	6	Settlements are not anticipated to be significant with regard to services if placed within engineered fill or the Bosworth Clay Member and Thrussington Member deposits.
		Landscape Areas.	Settlement (differential), landscaping	1	3	3	Bunds will be present across the site. If anticipated settlements are significant, bunds and slopes to be engineered in accordance with a Geotechnical Design Report.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

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Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Obstructions.	There is a potential for obstructions to be present due to historical construction activity, or unknown fill.	Construction staff, vehicles and plant operators.	Risk of collapse of excavation as obstructions are pulled out.	2	3	6	Undertake further investigation work.
		Roads and Pavements.	Hard spots in externals and roads / pavements.	2	2	4	
Changing groundwater conditions.	Monitoring during the site investigation has proven that the groundwater table is variable (range from 0.44m bgl to 4.68m bgl).	Construction staff, vehicles and plant operators.	Difficulty with excavation. Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	3	2	6	Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of, and requirements for, dewatering of excavations. Any water that collects at the base of excavations to be removed as soon as practicable.
		Slopes and retaining structures.	Serviceability issues.	3	2	6	Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. Design drainage for retaining walls to account for fluctuating groundwater levels. The variable, and locally shallow, groundwater is to be taken into account during geotechnical design of the permanent works.
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Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Subject to risk from erosion.	Tributary of Thurlaston Brook located in the southern part of the area 5.	The entire development.	Damage to landscape areas, roads and services.	2	4	8	Slopes to be designed at stable angle. Slopes to be designed with erosion matting to prevent scouring.
Slope stability issues – General Slopes.	The site is on sloping ground and the proposed development requires slopes to be formed as part of the cut-to-fill.	Commercial / Industrial Buildings	Serviceability issues.	5	4	20	Safe slope angles to be assessed during design. Engineered fill requirements to be defined at outline design stage. Drainage requirements to be assessed during design. Slopes to be constructed at a safe angle. Formation level to be inspected.
		Roads and pavements.	Serviceability issues.	5	3	15	
		Soft landscaping	Serviceability issues.	5	2	10	
Slope stability issues – retaining walls.	The site is on sloping ground and the proposed development requires retaining walls to be constructed.	Commercial / Industrial Buildings	Serviceability issues.	4	4	16	Design of the retaining to be undertaken in accordance with EC7. Adequate drainage to be designed behind the structure, or for water seepage through the face of the wall. Lateral earth pressure parameters to be characterised during investigation and design. Engineered fill requirements to be defined at outline design stage.
		Pavement construction and long-term durability highways and external areas.	Serviceability issues.	4	3	12	
		Soft Landscaping	Serviceability issues.	4	2	8	
		Construction staff, vehicles and plant operators.	Potential for future movements / collapse.	3	4	12	
Cont…							

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Earthworks – Settlement (due to placement of fill on soft / loose ground / Deep Made Ground).	The ground conditions at the site include up to 5m of soft Landfill material. Levels are increasing by up to 12m to allow creation of development plateaus and bunds.	Roads and Pavements.	Settlement (total and differential), of roads and pavements.	2	3	6	Settlements are not anticipated to be significant with regard to roads and pavements within engineered fill or the Oadby Member. Should the underlying soils consist of alluvium or Made Ground mitigation measures would be required. Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate.
		Services.	Settlement (differential), causing damage to services.	2	3	6	Settlements are not anticipated to be significant with regard to services.
		Soft Landscaping	Settlement (differential), in soft landscaping	2	3	6	Assess the use of geogrids as part of the design process. Undertake ground improvement to reduce settlements in areas of soft ground.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Cont….

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Earthworks – poor bearing capacity of new fill.	There is a requirement for cut-to-fill to create the development platform and filling of remediation excavations. This will require reuse of soils excavated from the site.	Roads and Pavements.	Settlement (total and differential).	3	3	9	Minimum engineering performance to be defined in an Earthworks Specification. Earthworks to be designed in accordance with 1) Manual of Contract Documents for Highway Works (MCHW), Volume 1; 2) Specification for Highway Works (SHW) Series 600; 3) 6031:2009, Code of practice for earthworks; and 4) BS 8000-1, workmanship on building sites. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification.
		Services.	Settlement (differential), causing damage to services.	2	3	6	
		Soft Landscaping	Settlement (differential), in areas of soft landscaping	2	3	6	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	
Earthworks – Unsuitability of site won material to be reused as fill.	There is a requirement for cut-to-fill to create the development platform and filling of remediation excavations. This will require reuse of soils excavated from the site.	Earthworks control, inability to place and compact fill.	Service limit state failure, excessive and intolerable total and differential settlement.	4	3	12	The design is to describe the processes required to produce suitable fill for reuse. Contractor to design site control measures, plant, equipment and arrangement to comply with processing requirements. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification to be undertaken. Adequate investigation required of soil types and characterisation of the soils to be undertaken during investigation. Some site-won material may be unsuitable for reuse.
		Project Budgets - Insufficient fill to complete earthworks.	Additional costs, due to importation of fill or having to modify designs.	2	2	4	
Cont..							

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Problematic soils (silts and rewetting etc.).	Higher silt fractions are present within the Alluvial deposits	Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	3	9	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils or undertake ground improvement.
		Services.	Settlement (differential), causing damage to services.	2	3	6	Ground levels are being raised and settlements are anticipated to be significant. Ground improvement may be required to reduce post-construction settlements to tolerable levels.
		Soft Landscaping	Settlement (differential), in areas of soft landscaping	2	3	6	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	3	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Unforeseen ground conditions - risk associated with limited data.	Ground investigation has been undertaken. However, additional information will be obtained during further investigation and construction. Ground conditions are only defined at exploratory hole locations.	All aspects of the development		3	4	12	Designers to be contacted if conditions encountered are different to those identified during investigation. Regular inspections of excavations and earthworks for evidence of stability. Adequate further investigation required to characterise the site and understand the potential risks.

Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construction process.

Impacts of the design with regard to health and Safety considerations will need to be included by the designer at design stage.

Appendix K

Plausible Source-Pathway-Receptor Contaminant Linkages

Summary of Potential Contaminant Linkages

Table K.2 lists the plausible contaminant linkages which have been identified. These are considered as potentially unacceptable risks in line with guidelines published in CLR 11 and additional risk assessment is required.

Source – Pathway – Receptor Linkages have been assessed in general accordance with guidance in CIRIA Report C552 (Rudland et al 2001) but with the addition of a 'no linkage' category (See Table K.1). More details are given in the relevant Hydrock methodology, referenced in Appendix L, including descriptions of typical examples of probability and consequences.

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to site demolition and redevelopment workers, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

Table K.1: Consequence versus probability assessment.

		Consequence			
Probability		Severe	Medium	Mild	Minor
	High Likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Very low risk
	Low Likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Very low risk
	No Linkage	No risk			

Table K.2: Exposure model –risk assessment of source-pathway-receptor contaminant linkages

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Zone 1						
Made Ground containing metals, metalloids, PAH, asbestos and petroleum hydrocarbons associated with development on site and backfilled ponds.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	There is Made Ground predominately below the Weeping Willows Kennels located in Field F4. Limited investigation undertaken within property. Further investigation is required. Further testing required and analysis of final proposals required. Additional investigation required to target backfilled ponds. The risk of significant generation of dust is likely only during site development process and can therefore be controlled. The site does not present a significant risk to plant growth or water receptors.
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
	Root uptake (metals only)	Landscape planting	Likely	Low	Low	
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Surface run-off.	Aquatic ecosystems. Surface water and possible abstractors.	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater.		Low likelihood	Medium	Low	
Cont…						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Petroleum hydrocarbons and associated with former ASTs in the Weeping Willows located in Field F4.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate to High	Limited investigation carried out due to site constraints. Further work required to target remaining tanks. Mitigation will likely be required. The volumes of hydrocarbons used on site would be small. Any potential impact would be very localised. The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures.
	Vapours.	Neighbours.		Medium	Moderate to High	
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Likely	Low	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Made Ground containing biological contamination such as e-coli and metals recorded in the cesspit in The Weeping Willows in Field F4.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	Limited investigation carried out due to site constraints. Further investigation required to target the tank. The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures Potential contamination likely to be local to tanks.

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Pesticides and herbicides from agricultural use and railway line maintenance.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate to High	Limited testing carried out due to site constraints. The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures.
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Likely	Low	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Ground gases (carbon dioxide and methane) from organic materials in Made Ground and backfilled ponds.	Migration, build up and explosion.	Site users.	Unlikely	Medium	Low	Further testing required and analysis of final proposals required. Additional investigation required to target backfilled ponds.
		Neighbours.				
		Buildings on site.				
		Buildings on adjacent sites.				
Buildings on site and railway land (asbestos).	Fugitive dust.	On Site	Likely	Severe	High	Further asbestos testing required in areas of development and adjacent railway line.
		Neighbours.	Unlikely	Severe	Low	Careful removal will be required from buildings during demolition. However, removal under controlled conditions should limit release of fibres to the air and the ground.

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Zone 2						
Made Ground containing metals, metalloids, PAH, asbestos and petroleum hydrocarbons associated with development on site and backfilled ponds.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	Further investigation and testing required to determine the extend of asbestos encountered in WS15. Further investigation required to target backfilled ponds. There is Made Ground predominately below Woodhouse Farm. Limited investigation undertaken within property. The risk of significant generation of dust is likely only during site development process and can therefore be controlled.
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
	Root uptake (metals only)	Landscape planting	Likely	Low	Low	The site does not present a significant risk to plant growth or water receptors.
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Surface run-off.	Aquatic ecosystems. Surface water and possible abstractors.	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater.		Low likelihood	Medium	Low	
Conc….						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Petroleum hydrocarbons and associated with former ASTs in the Tanks recorded in Woodhouse Farm.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate to High	Limited investigation carried out due to site constraints. Further work required to target remaining tanks. Mitigation will likely be required. The volumes of hydrocarbons used on site would be small. Any potential impact would be very localised. The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures.
	Vapours.	Neighbours.		Medium	Moderate to High	
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Likely	Low	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Cont....						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Pesticides and herbicides from agricultural use and railway line maintenance.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate to High	Limited testing carried out due to site constraints. The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures.
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Likely	Low	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Ground gases (carbon dioxide and methane) from organic materials in Made Ground and backfilled ponds.	Migration, build up and explosion.	Site users.	Unlikely	Medium	Low	Further testing required and analysis of final proposals required. Additional investigation required to target backfilled ponds.
		Neighbours.				
		Buildings on site.				
		Buildings on adjacent sites.				
Buildings on site (asbestos).	Fugitive dust.	On Site	Likely	Severe	High	Careful removal will be required from buildings during demolition. However, removal under controlled conditions should limit release of fibres to the air and the ground.
		Neighbours.	Unlikely	Severe	Low	
Cont…						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Zone 3						
Made Ground containing metals, metalloids, PAH, asbestos and petroleum hydrocarbons associated with development on site and backfilled ponds.	Ingestion, inhalation or direct contact.	Site users.	Low likelihood	Medium	Low	Further investigation required to target backfilled ponds. Limited investigation undertaken within Hobb Hayes Farm and Freeholt Lodge. Further investigation and testing required. The risk of significant generation of dust is likely only during site development process and can therefore be controlled.
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
	Root uptake (metals only)	Landscape planting	Likely	Low	Low	The site does not present a significant risk to plant growth or water receptors. .
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Surface run-off.	Aquatic ecosystems. Surface water and possible abstractors.	Low likelihood	Medium	Low	
Cont…						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Petroleum hydrocarbons and associated with former ASTs in the Tanks recorded in Woodhouse Farm; and Tanks recorded in Hobbs Hayes Farm and Freeholt Lodge.	Base flow from contaminated groundwater.		Low likelihood	Medium	Low	Limited investigation carried out due to site constraints. Further investigation required to target tanks. Mitigation will likely be required. The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures. The site does not present a significant risk to plant growth or water receptors.
	Vapours.	Neighbours.		Medium	Moderate	
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Low	Medium	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Pesticides and herbicides from agricultural use and railway line maintenance.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures.
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Low	Medium	Low	

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Ground gases (carbon dioxide and methane) from organic materials in Made Ground and backfilled ponds.	Migration, build up and explosion.	Site users.	Unlikely	Medium to Severe	Very low to Low	Further testing required and analysis of final proposals required.
		Neighbours.				
		Buildings on site.				
		Buildings on adjacent sites.				
Buildings on site (asbestos).	Fugitive dust.	On Site	Likely	Severe	High	Careful removal will be required from buildings during demolition. However, removal under controlled conditions should limit release of fibres to the air and the ground.
		Neighbours.	Unlikely	Severe	Low	
Cont…						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Zone 4						
Made Ground containing metals, metalloids, PAH, asbestos and petroleum hydrocarbons associated with development on site and backfilled ponds.	Ingestion, inhalation or direct contact.	Site users.	Low likelihood	Medium	Low	No Made Ground encountered during preliminary investigation. Further investigation required to confirm this (below access roads and infrastructure).
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
	Root uptake (metals only)	Landscape planting	Likely	Low	Low	
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Surface run-off.	Aquatic ecosystems. Surface water and possible abstractors.	Low likelihood	Medium	Low	
Cont….						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Pesticides and herbicides from agricultural use and railway line maintenance.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate to High	The risk of significant generation of dust is likely only during site development and can therefore be controlled. Suppression should be included in control measures.
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Low likelihood	Medium	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Ground gases (carbon dioxide and methane) from organic materials in Made Ground and backfilled ponds.	Migration, build up and explosion.	Site users.	Unlikely	Medium to Severe	Low	Further testing required and analysis of final proposals required.
		Neighbours.				
		Buildings on site.				
		Buildings on adjacent sites.				
Cont….						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Zone 5						
Made Ground containing metals, metalloids, PAH, asbestos and petroleum hydrocarbons associated with development on site and backfilled ponds.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	No Made Ground encountered during preliminary investigation. Further investigation required to confirm this.
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
Pesticides and herbicides from agricultural use and railway line maintenance.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	Limited testing carried out due to site constraints.
	Inhalation of fugitive dust.	Neighbours.	Low	Medium	Low	
	Leaching through unsaturated zone.	Groundwater	Low	Medium	Low	
	Surface run-off.	Aquatic ecosystems	Low likelihood	Medium	Low	
	Base flow from contaminated groundwater	Surface water	Low likelihood	Medium	Low	
Cont…						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Ground gases (carbon dioxide and methane) from organic materials in Made Ground and backfilled ponds.	Migration, build up and explosion.	Site users.	Unlikely	Medium	Low	Further testing required and analysis of final proposals required.
		Neighbours.				
		Buildings on site.				
		Buildings on adjacent sites.				
Cont…						

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Off site						
Ground gases (carbon dioxide and methane) from organic materials in the former landfill, located 246m south east. the backfill to the former quarry, now filled, 50m east of Zone 5. organic materials in the suspected former quarry, located 100m north in Field F59 in Zone 1.	Migration, build up and explosion.	Site users.	Unlikely	Medium	Low	Further testing required and analysis of final proposals required.
		Neighbours.				
		Buildings on site.				
		Buildings on adjacent sites.				

Appendix L

Hydrock Methodologies

This report uses Hydrock Desk Study and Site Investigation template V46.1.

This appendix provides additional background information on certain approaches and methods used by Hydrock Consultants Limited in the preparation of this report.

The following Hydrock Methodologies apply to this report. These are not included, but are available on request by quoting the methodology reference, revision and date.

Reference	Name	Revision	Date
002	Site Investigation	001	30/07/2018
003	Preliminary Geo-environmental Risk Assessment Rationale	001	30/07/2018
004	Preliminary geotechnical Risk Register	001	30/07/2018
005	Generic Risk Assessment for Human Health (Soils)	001	30/07/2018
006	Generic Risk Assessment for Pollution of Controlled Waters	001	30/07/2018
007	Detailed Quantitative Risk Assessment for Risk to Controlled Waters	001	30/07/2018
008	Generic Risk Assessment for Risk to Plants	001	30/07/2018
009	Generic Risk Assessment for Water Supply Pipes	001	30/07/2018
010	Generic Ground Gas Risk Assessment	001	30/07/2018
011	Determination of Contaminated Land Under Part 2A of the Environmental Protection Act 1990	001	30/07/2018
012	Waste Management	001	30/07/2018
013	Materials Management	001	30/07/2018
014	Asbestos in Soils	001	30/07/2018
015	Remediation and Mitigation (New Methodology)	001	30/07/2018
016	Geotechnical Categorization and Characteristic Design Values	001	30/07/2018
018	Foundation and Floor Slab Recommendations – Commercial / Distribution	001	30/07/2018
019	Earthworks Suitability Recommendations	001	30/07/2018
020	Pavements and Pavement Foundations	001	30/07/2018
021	Slope Stability Recommendations	001	30/07/2018
022	Retaining Recommendations	001	30/07/2018
023	Sulphate Recommendations	001	30/07/2018