



Brownfield Consulting & Development

Site Details:

Client Ref: 33420
Report Ref: CMAPS-GDP-807615-33420-170619
Grid Ref: 490230, 412185

Map Name: County Series

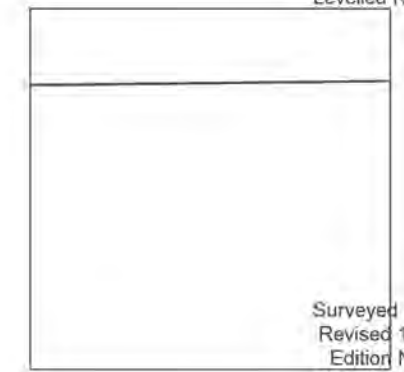
Map date: 1907

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



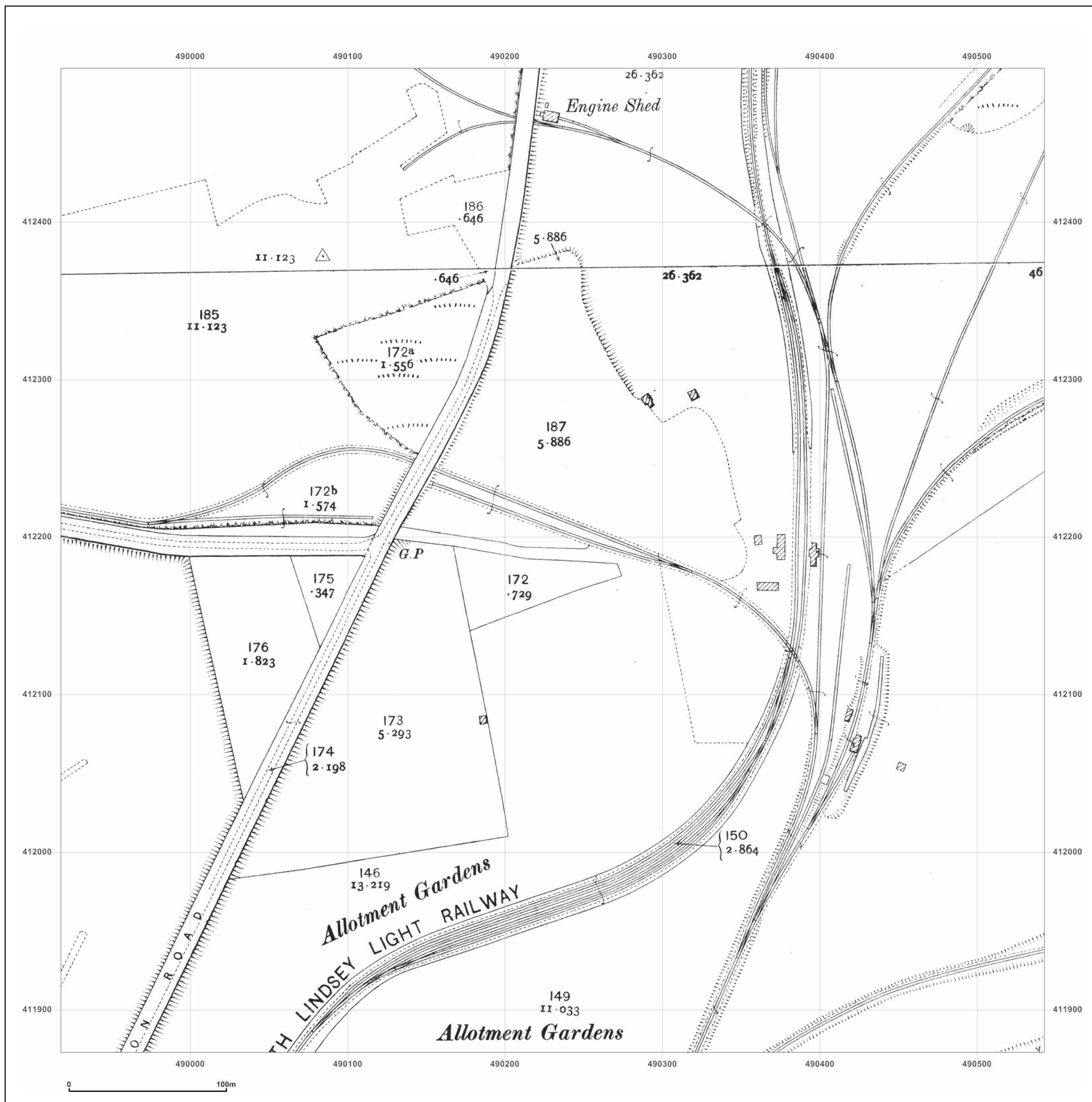
Produced by
Groundsure Insights
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E: info@groundsure.com
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Production date: 17 June 2019

Map legend available at:
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Brownfield Consulting & Development

Site Details:

Client Ref: 33420
Report Ref: CMAPS-GDP-807615-33420-170619
Grid Ref: 490230, 412185

Map Name: National Grid

Map date: 1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1951	Surveyed 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1951
Surveyed 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1951	Surveyed 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1951



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Site Details:

Client Ref: 33420
Report Ref: CMAPS-GDP-807615-33420-170619
Grid Ref: 490230, 412185

Map Name: National Grid

Map date: 1963-1964

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
Revised 1963
Edition 1964
Copyright 1964
Levelled 1951

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled N/A

Surveyed N/A
Revised N/A
Edition 1964
Copyright 1964
Levelled 1951

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled N/A



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Site Details:

Client Ref: 33420
Report Ref: CMAPS-GDP-807615-33420-170619
Grid Ref: 490230, 412185

Map Name: National Grid

Map date: 1973-1976

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
Revised 1976
Edition N/A
Copyright 1976
Levelled 1968

Surveyed 1963
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968

Surveyed 1963
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968

Surveyed 1963
Revised 1972
Edition N/A
Copyright 1973
Levelled 1968



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Map legend available at:
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Site Details:

Client Ref: 33420
 Report Ref: CMAPS-GDP-807615-33420-170619
 Grid Ref: 490230, 412185

Map Name: National Grid

Map date: 1987-1988

Scale: 1:2,500

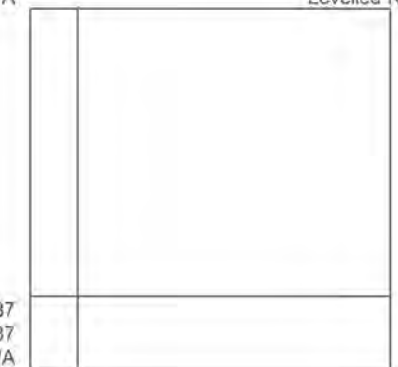
Printed at: 1:2,500



Surveyed 1988
 Revised 1988
 Edition N/A
 Copyright 1988
 Levelled N/A

Surveyed 1988
 Revised 1988
 Edition N/A
 Copyright 1988
 Levelled N/A

Surveyed 1987
 Revised 1987
 Edition N/A
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Production date: 17 June 2019

Map legend available at:
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Brownfield Consulting & Development

Site Details:

Client Ref: 33420
Report Ref: CMAPS-GDP-807615-33420-170619
Grid Ref: 490230, 412185

Map Name: National Grid

Map date: 1986-1991

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A Revised 1991 Edition N/A Copyright 1991 Levelled 1968	Surveyed N/A Revised N/A Edition N/A Copyright 1990 Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright 1990 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1988 Levelled 1968



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Map legend available at:
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Brownfield Consulting & Development

Site Details:

Client Ref: 33420
Report Ref: CMAPS-GDP-807615-33420-170619
Grid Ref: 490230, 412185

Map Name: National Grid

Map date: 1990-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed 1994
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1990
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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Production date: 17 June 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



APPENDIX 3

Radon Report



Brownfield Consulting & Development

GD Pickles Ltd, registered in the UK: 09387115.
Biltons Farm, South Scarle Lane, Swinderby, Lincoln, LN6 9JA



Radon Risk Report: England and Wales

Introduction

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon affected area. It is based on the joint British Geological Survey (BGS) - Public Health England (PHE) [radon potential data](#).

Requirement for radon protective measures

The BGS is not able to provide advice on the technical specifications of 'basic' and 'full' radon protective measures. This information is detailed in *BRE Report BR211 Radon: guidance on protective measures for new buildings* which may be purchased from www.brebookshop.com. This report offers guidance on the technical solutions that are required to satisfy Building Regulations requirements.

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2007 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

Location

490308, 412142 (British National Grid)

12/08/2019 15:10:47 GMT

Location Map



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Is the property in a radon Affected Area as defined by Public Health England (PHE)?

Yes

What percentage of homes are estimated to be above the Action Level?

The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). The property is in a radon Affected Area.

Guidance

PHE recommends a radon 'Action Level' of 200 becquerels per cubic metre for the annual average of the radon gas concentration in a home. Where 1% or more of homes are estimated to exceed the Action Level (i.e. are in an Intermediate or Higher probability radon area) the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level. This does not necessarily mean there is a radon problem in the property; the only way to find out whether it is above or below the Action Level is to carry out a radon measurement in an existing property.

PHE advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels above the Action Level (200 Bq m⁻³) should be remediated, and when achievable to below the Target Level of 100 Bq m⁻³. Householders with levels between the Target Level and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. PHE provides a radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as CON29 Standard Enquiry of Local Authority (part 1); 3.13 Radon Gas: Location of the Property in a Radon Affected Area.

If you are buying a currently occupied property in a Radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the Radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from PHE or www.ukradon.org

What level of radon protective measures are required for new buildings in England and Wales?

Basic

Guidance

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales and Scotland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations require either:

1. No protective measures
2. Basic protective measures
3. Full protective measures

More details of the protective measures are available in BR211 Radon: Guidance on protective measures for new buildings (2015 Edition). Additional information and guidance is available from the Building Research Establishment website (<http://www.bre.co.uk/radon/>)

The indicative maps showing where protective measures may be required in new buildings and extensions, conversions and refurbishments in existing buildings are available on the Building Research Establishment website at the following link: <http://www.bre.co.uk/radon/maps.html>

Whether or not a building is in fact above or below the radon Action Level can only be established by having the building tested. PHE provides a radon testing service which can be accessed at www.ukradon.org or by telephone.

Further Information

Risks of Radon

Radon is a radioactive gas which occurs naturally. It has no taste, smell or colour. Special devices are needed to measure it. Radon comes out of the ground. Outdoors, it is diluted to very low levels. However, in some cases the radon level indoors can build up to high concentrations. In such cases, it does pose a serious risk to health.

Action Level for Radon

Public Health England recommends that radon levels should be reduced in homes where the average is more than 200 becquerels per cubic metre of air (Bq m^{-3}). This recommendation has been endorsed by the Government. This Action Level refers to the annual average concentration in a home, so radon measurements are carried out with two detectors (in a bedroom and living room) over three months, to average out short-term fluctuations.

Radon Affected Areas

Public Health England defines radon Affected Areas as those with a 1% probability or more of a home having radon above the Action Level. Public Health England recommends that people in Affected Areas should test their homes for radon.

How to Reduce Radon Levels

Public Health England advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels above the Action Level (200 Bq m^{-3}) should be remediated, preferably to below the Target Level of 100 Bq m^{-3} . Householders with levels between the Target Level and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers.

Indoor radon levels can usually be substantially reduced at a cost comparable to many home improvements, such as replacing carpets. Details of methods of reducing radon levels are given on the Building Research Establishment Website.

Radon in the Workplace

Information on radon measurement in the workplace and in the home is available at:

[Radon in the Workplace](#)
[Radon in the Home](#)

Additional advice on radon in the workplace can be found at:
[Health and Safety Executive](#)

Terms & Conditions

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The data, information and related records supplied in this Report by BGS can only be indicative and should not be taken as a substitute for specialist interpretations, professional advice and/or detailed site investigations. You must seek professional advice before making technical interpretations on the basis of the materials provided.

The results in this report are generated automatically from the joint BGS - Public Health England Radon dataset, based on 1:50 000 digital geological maps and the interpretation of other records in the possession of Public Health England and BGS at the time. Their scope and accuracy is limited by the methods used to create the dataset. The answer given should therefore only be treated as indicative for the search area.

The search in this report is carried out for a circle 150m in diameter centred on the grid reference or point supplied, which takes into account the approximate size of a property's extent and the spatial accuracy of the geological hazards data described above.

Geological observations and interpretations are made according to the prevailing understanding of the subject at the time. The quality of such observations and interpretations may be affected by the availability of new data, by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.

Raw data may have been transcribed from analogue to digital format, or may have been acquired by means of automated measuring techniques. Although such processes are subjected to quality control to ensure reliability where possible, some raw data may have been processed without human intervention and may in consequence contain undetected issues.

Detail, which is clearly defined and accurately depicted on large-scale maps, may be lost when small-scale maps are derived from them.

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Data, information and related records, which have been donated to BGS, have been produced for a specific purpose, and that may affect the type and completeness of the data recorded and any interpretation. The nature and purpose of data collection, and the age of the resultant material may render it unsuitable for certain applications/uses. You must verify the suitability of the material for your intended usage.

If a report or other output is produced for you on the basis of data you have provided to BGS, or your own data input into a BGS system, please do not rely on it as a source of information about other areas or geological features, as the report may omit important details.

The topography shown on any map extracts is based on the latest OS mapping and is not necessarily the same as that used in the original compilation of the BGS geological map, and to which the geological linework available at that time was fitted.

Note that for some sites, the latest available records may be quite historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

Report issued by: **BGS iGeology**
BGS Enquiries - enquiries@bgs.ac.uk - 0115 936 3143

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APPENDIX 4

Silkstone Trial Pit Location & Lab Results



Brownfield Consulting & Development

GD Pickles Ltd, registered in the UK: 09387115.
Biltons Farm, South Scarle Lane, Swinderby, Lincoln, LN6 9JA

Permit No. WP3297FFA001 Site Condition Report – Location of Soil Sampling Locations



- Site Boundary
- Soil Sample Location



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

Ellgia
Unit 7
Lancaster Way Business Park
Ely
CB6 3NW

Analytical Test Report: L19/0768/ELL/002

Your Project Reference:	AC Autos	Samples Received on:	22/03/2019
Your Order Number:	TBC	Testing Instruction Received:	10/04/2019
Report Issue Number:	1	Sample Tested:	10/04 to 13/04/2019
Samples Analysed:	5 soil samples	Report issued:	23/04/2019

Signed

Peter Swanston
Environmental Laboratories Manager
Nicholls Colton Group

Notes:

General

Please refer to Methodologies tab for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Moisture Content was determined in accordance with NC method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with NC method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

With the exception of Sulphate which was crushed to pass the 2mm test sieve, concentrations are reported as a percentage mass of the dry soil passing the 10mm BS test sieve. As received samples have been corrected for moisture content but not stone content.

Samples were supplied by customer, results are representative of the material provided

Asbestos

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Deviating Samples

Samples were received in suitable containers	Yes
A date and time of sampling was provided	Yes
Sample holding times were exceeded prior to analysis of determinants	No

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited
MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue 24.01.2017
Owned by Emily Blissett - Customer Services Supervisor
Authorised by James Gane - Commercial Manager
J:\Public\Projects\2019\L19\ELL - Ellgia\L19-0768-ELL\L19-0768-ELL-002.xlsx\Master ENV analysis

L19/0768/ELL/002

Project Reference - AC Autos

Analytical Test Results - Soil

NC Reference			30882	30883	30884	30885	30886
Client Sample Reference			AC1	AC2	AC3	AC4	AC5
Client Sample Location			AC1	AC2	AC3	AC4	AC5
Depth - Top (m)			0.5	0.5	0.5	0.5	0.5
Depth - Bottom (m)			0.5	0.5	0.5	0.5	0.5
Date of Sampling			19/03/2019	19/03/2019	19/03/2019	19/03/2019	19/03/2019
Time of Sampling			10:00	10:10	10:20	10:35	10:55
Sample Matrix			Sand	Sand	Sand	Sand	Sand
Determinant	Units	Accreditation					
Arsenic	(mg/kg)	MCERTS	< 10	18	11	11	13
Boron (w/s)	(mg/kg)	u	9.3	< 2.5	2.5	< 2.5	4.1
Cadmium	(mg/kg)	MCERTS	1.9	1.4	0.6	1.1	1.9
Chromium (Total)	(mg/kg)	UKAS	310	44	15	25	42
Copper	(mg/kg)	MCERTS	100	76	27	41	280
Lead	(mg/kg)	MCERTS	370	160	250	340	550
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	18	23	14	18	30
Selenium	(mg/kg)	u	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Zinc	(mg/kg)	MCERTS	200	350	310	840	530
Total Phenols	(mg/kg)	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyanide (Total)	(mg/kg)	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
pH	pH Units	MCERTS	12.1	10.8	11.7	11.4	11.5
Sulphate (Water soluble)	(mg/l)	u	110	2300	1300	330	2400
Thiocyanate	(mg/kg)	u	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acenaphthene	(mg/kg)	MCERTS	0.05	< 0.20	< 0.02	< 0.20	0.35
Acenaphthylene	(mg/kg)	UKAS	0.04	< 0.20	< 0.02	< 0.20	< 0.20
Anthracene	(mg/kg)	UKAS	0.14	0.23	0.04	0.40	0.75
Benzo (a) anthracene	(mg/kg)	MCERTS	0.42	1.2	0.09	1.3	1.1
Benzo (a) pyrene	(mg/kg)	MCERTS	0.38	1.3	0.08	1.5	1.1
Benzo (b) fluoranthene	(mg/kg)	MCERTS	0.75	1.7	0.10	1.8	1.5
Benzo (g, h, i) perylene	(mg/kg)	MCERTS	0.34	0.97	0.06	1.1	0.81
Benzo (k) fluoranthene	(mg/kg)	MCERTS	0.29	0.72	0.05	0.76	0.57
Chrysene	(mg/kg)	MCERTS	0.51	1.3	0.09	1.3	1.1
Dibenzo (a,h) anthracene	(mg/kg)	MCERTS	0.08	0.22	< 0.02	< 0.20	< 0.20
Fluoranthene	(mg/kg)	MCERTS	0.66	1.8	0.19	2.4	2.6
Fluorene	(mg/kg)	MCERTS	0.03	< 0.20	< 0.02	< 0.20	0.55
Indeno (1, 2, 3,-cd) pyrene	(mg/kg)	MCERTS	0.38	0.94	0.05	0.97	0.82
Naphthalene	(mg/kg)	MCERTS	< 0.02	< 0.20	0.05	< 0.20	< 0.20
Phenanthrene	(mg/kg)	MCERTS	0.42	0.66	0.19	1.8	2.7
Pyrene	(mg/kg)	MCERTS	0.90	1.6	0.15	2.0	2.1
Total PAH (Sum of USEPA 16)	(mg/kg)	UKAS	5.4	14	1.2	16	17
TOC	(%)	MCERTS	1.4	2.2	1.2	1.9	3.6
SOM (via TOC)	(%)	UKAS	2.4	3.8	2.1	3.3	6.1
Asbestos	-	UKAS	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Benzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04	< 0.05	< 0.04
Toluene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04	< 0.05	< 0.04
Ethylbenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04	< 0.05	< 0.04
m&p Xylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04	< 0.05	< 0.04
o-Xylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04	< 0.05	< 0.04
MTBE	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04	< 0.05	< 0.04

L19/0768/ELL/002

Project Reference - AC Autos

Analytical Test Results - TPH CWG

NC Reference			30882	30883	30884	30885	30886
Client Sample Reference			AC1	AC2	AC3	AC4	AC5
Client Sample Location			AC1	AC2	AC3	AC4	AC5
Depth - Top (m)			0.5	0.5	0.5	0.5	0.5
Depth - Bottom (m)			0.5	0.5	0.5	0.5	0.5
Date of Sampling			19/03/2019	19/03/2019	19/03/2019	19/03/2019	19/03/2019
Time of Sampling			10:00	10:10	10:20	10:35	10:55
Sample Matrix			Sand	Sand	Sand	Sand	Sand
Determinant	Units	Accreditation					
Aliphatics							
>C ₅ to C ₆	(mg/kg)	u	< 0.03	0.11	0.06	0.04	0.09
>C ₆ to C ₈	(mg/kg)	u	< 0.03	0.03	< 0.03	< 0.03	< 0.03
>C ₈ to C ₁₀	(mg/kg)	u	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
>C ₁₀ to C ₁₂	(mg/kg)	u	< 10	< 10	< 10	< 10	< 10
>C ₁₂ to C ₁₆	(mg/kg)	u	< 10	12	< 10	< 10	18
>C ₁₆ to C ₂₁	(mg/kg)	u	31	27	< 10	12	69
>C ₂₁ to C ₃₅	(mg/kg)	u	210	200	66	110	690
Aromatics							
>C ₅ to C ₇	(mg/kg)	u	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
>C ₇ to C ₈	(mg/kg)	u	< 0.03	0.03	< 0.03	< 0.03	< 0.03
>C ₈ to C ₁₀	(mg/kg)	u	< 0.03	0.04	< 0.03	< 0.03	< 0.03
>C ₁₀ to C ₁₂	(mg/kg)	u	< 10	< 10	< 10	< 10	< 10
>C ₁₂ to C ₁₆	(mg/kg)	u	< 10	< 10	< 10	< 10	15
>C ₁₆ to C ₂₁	(mg/kg)	u	15	17	< 10	14	51
>C ₂₁ to C ₃₅	(mg/kg)	u	76	100	30	90	300
Total							
>C ₅ to C ₃₅	(mg/kg)	u	330	350	97	220	1100

L19/0768/ELL/002

Project Reference - AC Autos

Analytical Test Results - SVOC

NC Reference			30882	30883	30884	30885	30886
Client Sample Reference			AC1	AC2	AC3	AC4	AC5
Client Sample Location			AC1	AC2	AC3	AC4	AC5
Depth - Top (m)			0.5	0.5	0.5	0.5	0.5
Depth - Bottom (m)			0.5	0.5	0.5	0.5	0.5
Date of Sampling			19/03/2019	19/03/2019	19/03/2019	19/03/2019	19/03/2019
Time of Sampling			10:00	10:10	10:20	10:35	10:55
Sample Matrix			Sand	Sand	Sand	Sand	Sand
Determinant	Units	Accreditation					
1,2,4-Trichlorobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
1,2-Dichlorobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
1,3-Dichlorobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
1,4-Dichlorobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
1-Chloronaphthalene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,3,4,6-Tetrachlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,4,5-Trichlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,4,6-Trichlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,4-Dichlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,4-Dimethylphenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,4-Dinitrophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,6-Dichlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2,6-Dinitrotoluene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2-Chlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2-Methylnaphthalene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2-Methylphenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2-Nitroaniline	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
2-Nitrophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
3,3-Dichlorobenzidine	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
3/4-Methylphenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
3-Nitroaniline	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4 Chlorophenyl phenyl ether	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4,6-Dinitro-2-methylphenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4-Bromophenyl phenyl ether	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4-Chloro-3-methylphenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4-Chloroaniline	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4-Nitroaniline	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
4-Nitrophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Acenaphthene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	0.7
Acenaphthylene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Aniline	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Anthracene	(mg/kg)	u	1.1	<0.5	<0.5	<5.0	1.8
Azobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Benz[a]anthracene	(mg/kg)	u	1.3	3.6	<0.5	<5.0	2.1
Benzidine	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Benzo[ghi]perylene	(mg/kg)	u	0.8	1.7	<0.5	<5.0	1.7
Benzo[a]pyrene	(mg/kg)	u	0.9	2.7	<0.5	<5.0	2.0
Benzo[b]fluoranthene	(mg/kg)	u	1.9	3.3	<0.5	<5.0	2.7
Benzo[k]fluoranthene	(mg/kg)	u	0.7	1.2	<0.5	<5.0	1.0
Benzoic Acid	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Benzyl Alcohol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Benzyl butyl phthalate	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Bis(2-chloroethoxy)methane	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Bis(2-chloroethyl)ether	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Bis(2-chloroisopropyl)ether	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Bis(2-ethylhexyl) phthalate	(mg/kg)	u	0.9	<0.5	<0.5	<5.0	2.0
Chrysene	(mg/kg)	u	1.7	3.0	<0.5	<5.0	2.4
Dibenz[a,h]anthracene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Dibenzofuran	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Dibutyl phthalate	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Diethyl Phthalate	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Dimethyl phthalate	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Di-n-octyl phthalate	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Diphenylamine	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Fluoranthene	(mg/kg)	u	2.1	4.4	<0.5	<5.0	5.2
Fluorene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Hexachlorobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Hexachlorobutadiene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Hexachlorocyclopentadiene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Hexachloroethane	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Indeno[1,2,3-cd]pyrene	(mg/kg)	u	0.7	1.5	<0.5	<5.0	1.6
Isophorone	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Methyl Methanesulfonate	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Naphthalene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Nitrobenzene	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
N-Nitrosodimethylamine	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Pentachlorophenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Phenanthrene	(mg/kg)	u	2.3	1.1	<0.5	<5.0	4.8
Phenol	(mg/kg)	u	<0.5	<0.5	<0.5	<5.0	<0.5
Pyrene	(mg/kg)	u	2.6	4.4	<0.5	<5.0	4.1

L19/0768/ELL/002

Project Reference - AC Autos

Analytical Test Results - VOC

NC Reference	30882	30883	30884	30885	30886
Client Sample Reference	AC1	AC2	AC3	AC4	AC5
Client Sample Location	AC1	AC2	AC3	AC4	AC5
Depth - Top (m)	0.5	0.5	0.5	0.5	0.5
Depth - Bottom (m)	0.5	0.5	0.5	0.5	0.5
Date of Sampling	19/03/2019	19/03/2019	19/03/2019	19/03/2019	19/03/2019
Time of Sampling	10:00	10:10	10:20	10:35	10:55
Sample Matrix	Sand	Sand	Sand	Sand	Sand
Determinant	Units	Accreditation			
Benzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Toluene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Ethylbenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
m&p Xylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
o-Xylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Dichlorodifluoromethane	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
Chloromethane	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
Vinyl Chloride	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Bromomethane	(mg/kg)	u	< 0.04	< 0.04	< 0.04
Chloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Trichlorofluoromethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1-Dichloroethylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Dichloromethane	(mg/kg)	u	< 0.04	< 0.04	< 0.09
MTBE	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
trans-1,2-dichloroethylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1-Dichloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
2,2-Dichloropropane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
cis-1,2-dichloroethylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Bromochloromethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Chloroform	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1,1-Trichloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1-Dichloropropene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Carbon Tetrachloride	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,2-dichloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Trichloroethylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,2-Dichloropropane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Dibromomethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Bromodichloromethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
cis-1,2-dichloropropylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
trans-1,3-dichloropropylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1,2-Trichloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,3-Dichloropropane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Tetrachloroethylene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Chlorodibromomethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,2-Dibromoethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Chlorobenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1,1,2-tetrachloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Styrene	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
Isopropylbenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Bromoform	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,1,2,2-Tetrachloroethane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,2,3-Trichloropropane	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
n-Propylbenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
Bromobenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,3,5-Trimethylbenzene	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
2-chlorotoluene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
4-chlorotoluene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
tert-butylbenzene	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
1,2,4-trimethylbenzene	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
sec-Butylbenzene	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
4-Isopropyltoluene (P-Cymene)	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
1,3-Dichlorobenzene	(mg/kg)	u	< 0.04	< 0.04	< 0.04
1,4-Dichlorobenzene	(mg/kg)	u	< 0.04	< 0.04	< 0.04
n-Butylbenzene	(mg/kg)	UKAS	< 0.04	< 0.04	< 0.04
1,2-Dichlorobenzene	(mg/kg)	MCERTS	< 0.04	< 0.04	< 0.04
1,2-Dibromo-3-chloropropane	(mg/kg)	u	< 0.04	< 0.04	< 0.04
1,2,4-Trichlorobenzene	(mg/kg)	u	< 0.04	< 0.04	< 0.04
Hexachlorobutadiene	(mg/kg)	u	< 0.04	< 0.04	< 0.04
Naphthalene	(mg/kg)	u	< 0.04	< 0.04	< 0.04
1,2,3-Trichlorobenzene	(mg/kg)	u	< 0.04	< 0.04	< 0.04

L19/0768/ELL/002

Project Reference - AC Autos

Sample Descriptions

NC Reference	Client Sample Reference	Sample Location	Description	Moisture Content (%)	Stone Content (%)
30882	AC1	AC1	Brown sandy gravel	7.8	52
30883	AC2	AC2	Made Ground- brown gravelly sand with occasional brick fragments	12	39
30884	AC3	AC3	Made Ground- brown sandy gravel with occasional brick fragments	18	56
30885	AC4	AC4	Made Ground- brown gravelly sand with rare brick fragments	11	32
30886	AC5	AC5	Greyish brown sandy crushed rock	17	43

L19/0768/ELL/002

Project Reference - AC Autos

Sample Comments

NC Reference	Client Sample Reference	Sample Location	Comments
30882	AC1	AC1	VPH - Sample taken from container with headspace. VOC/BTEX - Sample taken from container with headspace.
30883	AC2	AC2	VPH - Sample taken from container with headspace. VOC/BTEX - Sample taken from container with headspace.
30884	AC3	AC3	VPH - Sample taken from container with headspace. VOC/BTEX - Sample taken from container with headspace.
30885	AC4	AC4	VPH - Sample taken from container with headspace. VOC/BTEX - Sample taken from container with headspace.
30886	AC5	AC5	VPH - Sample taken from container with headspace. VOC/BTEX - Sample taken from container with headspace.

L19/0768/ELL/002

Project Reference - AC Autos

Analysis Methodologies

Matrix	Determinant	Sample condition for analysis	Test Method used
Soil	Metals	Air Dried	In house method statement - MS - CL - ICP metals
Soil	Boron (Water Soluble)	Air Dried	In house method statement - MS - CL - WS Boron
Soil	PAH	As Received	In house method statement - MS - CL - PAH (As received)
Soil	Phenols	As Received	In house method statement - MS - CL - Phenols by Skalar
Soil	Cyanide	As Received	In house method statement - MS - CL - Cyanide by Skalar
Soil	pH	As Received	In house method statement - MS - CL - pH in soils (using a 1:3 soil to water extraction)
Soil	SOM	Air Dried	In house method statement - MS - CL - TOC Eltra
Soil	Sulphate (w/s)	Oven Dried	In house method statement - MS - CL - Anions by Aquakem
Soil	CWG	As Received	In house method statements - MS - CL - EPH in soil and MS - CL - VPH
Soil	Asbestos	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
Soil	SVOC	As Received	In house method statement - MS - CL - Semi VOC
Soil	VOC	As Received	In house method statement - MS - CL - VOC and MBTEX
Soil	Thiocyanate	Air Dried	In house method statement - MS - CL - Thiocyanate

APPENDIX 5

Contaminated Land Risk Assessment Methodology



Brownfield Consulting & Development

GD Pickles Ltd, registered in the UK: 09387115.
Biltons Farm, South Scarle Lane, Swinderby, Lincoln, LN6 9JA

Contaminated Land Risk Assessment Methodology

The following classification was published by the NHBC, EA, and CIEH (2008). This was developed from *DOE Guide to Risk Assessment and Risk Management for Environmental Protection and the Statutory Guidance on Contaminated Land* (Defra September 2006).

The methodology differs from that presented in *Contaminated Land Risk Assessment, A Guide to Good Practice* (CIRIA C552, 2001), particularly in terms of the definitions of classification of consequence, which includes consideration of immediacy of hazards. The risk assessment methodology is now better aligned with health and safety and geotechnical risk assessment processes.

The designation of risk is based upon the consideration of both:

- **the magnitude of the potential consequence (i.e. severity).**
[takes into account both the potential severity of the hazard and the sensitivity of the receptor]
- **the magnitude of probability (i.e. likelihood).**
[takes into account both the presence of the hazard and receptor and the integrity of the pathway]

The potential consequences of contamination risks occurring at this Site are classified in accordance with Table 1 below:

Table 1: Classification of Consequence (Source: R&D 66:2008)

Classification	Definition of Consequence
Severe	<p>Highly elevated concentrations likely to result in “significant harm” to human health as defined by the EPA 1990, Part 2A, if exposure occurs.</p> <p>Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.</p> <p>Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.</p> <p>Catastrophic damage to crops, buildings or property.</p>
Medium	<p>Elevated concentrations which could result in “significant harm” to human health as defined by the EPA 1990, Part 2A if exposure occurs.</p> <p>Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.</p> <p>Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.</p> <p>Significant damage to crops, buildings or property.</p>
Mild	<p>Exposure to human health unlikely to lead to “significant harm”.</p> <p>Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce.</p> <p>Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long- term maintenance of the population.</p> <p>Minor damage to crops, buildings or property.</p>
Minor	<p>No measurable effect on humans.</p> <p>Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services.</p>

The probability of contamination risks occurring at this Site is classified in accordance with Table 2 below. Note: A pollution linkage must first be established before probability is classified. If there is no pollution linkage then there is no potential risk. If there is no pollution linkage then it follows that there is no need to apply tests for probability and consequence.

Table 2: Classification of Probability

Classification	Definition of Probability
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.
Unlikely	There is a pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.

For each possible pollutant linkage (source-pathway-receptor) identified, the potential risk can be evaluated based upon the following probability x consequence matrix shown in Table 3 below.

Table 3: Overall Contamination Risk Matrix

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Moderate / Low risk	Low risk
	Low likelihood	Moderate risk	Moderate / Low risk	Low risk	Very low risk
	Unlikely	Moderate / Low risk	Low risk	Very low risk	Very low risk

R&D 66:2008 presents definitions of the risk categories, together with the investigatory and remedial actions that are likely to be necessary for each outcome. These definitions are reproduced in Table 4. These risk categories apply to each pollutant linkage, i.e. not only to each hazard or receptor.

[Continued next page]

Table 4: Definition of Risk Categories and Likely Actions Required

Risk Category	Definition and likely actions required
Very high	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the Site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be Site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the Site without remediation action. Realisation of the risk is likely to present a substantial liability to the Site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to Site owner/occupier. Some remediation works may be required in the longer term.
Low	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the Site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Very low	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
No potential risk	There is no potential risk if no pollution linkage has been established.

APPENDIX 6

Exploratory Hole Records







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Borehole Record :BHA

DRILLING DETAILS	Drilling Date: 19 June 2019	GDP Project Ref: 1936
Drilling Company: Regional Drilling	Location: ELLGIA PLOT A	Bore Diameter: 100/80 (mm)
Drilling Method: Dynamic Sampling	Ground Elevation: (mAOD)	Co-ordinates:

Sample Reference	Sample Range	Depth (mBGL)	Graphic Log	Soil or Rock Field Material Description	SPT (blows/300mm)					PID (ppm)	Piezometer Construction Details And Groundwater Levels							
					0	10	20	30	40					50	60			
D1		0.00		Unreinforced concrete.														
		-0.50		MADE GROUND: Red brick and grey gravelly sand with crushed brick, mortar, wood, glass, plastic, rubber hose and spark plug.														
D2		-1.00		Orange brown, grey and black sand. Hydrocarbon odour 1.1-1.3m.														
D3		-1.50																
		-2.00																
		-2.50																
		-3.00																
		-3.50																
		-4.00																
		-4.50																
		-5.00																
		-5.50																
		-6.00																
		-6.50																


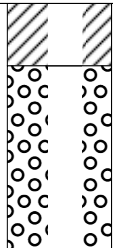


Groundwater Observations:
 Refused at 1.9m. No PID due to heavy rain

DRILLING DETAILS

Drilling Company: Regional Drilling
Drilling Method: Dynamic Sampling

Drilling Date: 19 June 2019
Location: ELLGIA PLOT A
Ground Elevation: (mAOD)

GDP Project Ref: 1936
Bore Diameter: 100/80 (mm)
Co-ordinates:

Sample Reference	Sample Range	Depth (mBGL)	Graphic Log	Soil or Rock Field Material Description	SPT (blows/300mm)	PID (ppm)	Piezometer Construction Details And Groundwater Levels
					0 10 20 30 40 50 60 70		
D1		0.00		Unreinforced concrete.		10.4	
		0.50		MADE GROUND: Crushed red brick and mortar.			
		1.00		MADE GROUND: Dark grey to black gravelly sand, gravel of mixed lithology, glass, brick, plastic, concrete and rare wood.		7	
		1.50					
		2.00					
		2.50					
		3.00					
		3.50					
		4.00					
		4.50					
		5.00					
		5.50					
		6.00					
		6.50					

Groundwater Observations:





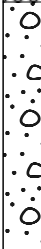
Refused at 1.2m.

DRILLING DETAILS

Drilling Company: Regional Drilling
Drilling Method: Dynamic Sampling

Drilling Date: 21 June 2019
Location: ELLGIA PLOT A
Ground Elevation: (mAOD)

GDP Project Ref: 1936
Bore Diameter: 100/80 (mm)
Co-ordinates:


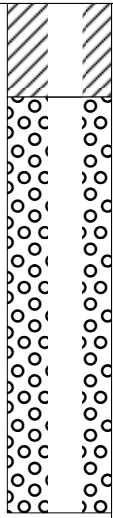



Sample Reference	Sample Range	Depth (mBGL)	Graphic Log	Soil or Rock Field Material Description	SPT (blows/300mm)					PID (ppm)	Piezometer Construction Details And Groundwater Levels							
					0	10	20	30	40					50	60			
D1		0.00		Unreinforced concrete.														
		0.50		MADE GROUND: Grey brown soily clayey sand and gravel of mixed lithology, brick, clinker and rare tarmac.														
D2		1.00																
		2.50																
D3		3.50		MADE GROUND: Orange brown fine sand.														
		4.00		MADE GROUND: Grey brown gravelly sandy clay.														
		4.50		Orange brown gravelly SAND.														
		5.00																
		5.50																
		6.00																
		6.50																

Groundwater Observations:

Refused at 5.3m. Wet from 4m.

Borehole Record :BHD


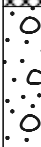
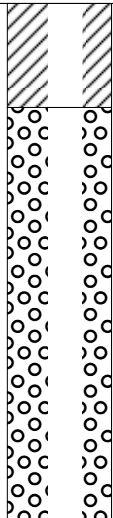

DRILLING DETAILS	Drilling Date: 19 June 2019	GDP Project Ref: 1936
Drilling Company: Regional Drilling	Location: ELLGIA PLOT A	Bore Diameter: 100/80 (mm)
Drilling Method: Dynamic Sampling	Ground Elevation: (mAOD)	Co-ordinates:

Sample Reference	Sample Range	Depth (mBGL)	Graphic Log	Soil or Rock Field Material Description	SPT (blows/300mm)	PID (ppm)	Piezometer Construction Details And Groundwater Levels
					0 10 20 30 40 50 60		
D1		0.00		MADE GROUND: Grey brown silty gravelly sand. Gravel of mixed lithology, concrete, brick and clinker.		10.2	
		-0.50		MADE GROUND: Beige gravelly sand.			
		-1.00		MADE GROUND: Red gravel of crushed brick.			
D2		-2.00		Grey silty gravelly SAND. Faint hydrocarbon odour.		7.9	
D3		-2.50		Orange brown fine to medium gravelly SAND.			
		-2.50		Grey weathered SANDSTONE recovered as a grey sandstone gravel.			
		-3.00					
		-3.50					
		-4.00					
		-4.50					
		-5.00					
		-5.50					
		-6.00					
		-6.50					

Groundwater Observations:
 Refused at 2.4m.

Borehole Record :BHE















DRILLING DETAILS	Drilling Date: 19 June 2019	GDP Project Ref: 1936
Drilling Company: Regional Drilling	Location: ELLGIA PLOT A	Bore Diameter: 100/80 (mm)
Drilling Method: Dynamic Sampling	Ground Elevation: (mAOD)	Co-ordinates:

Sample Reference	Sample Range	Depth (mBGL)	Graphic Log	Soil or Rock Field Material Description	SPT (blows/300mm)	PID (ppm)	Piezometer Construction Details And Groundwater Levels
					0 10 20 30 40 50 60		
D1		0.00		MADE GROUND: Grey brown silty gravelly sand. Gravel of mixed lithology, brick, concrete, tile, rare wire, glass, metal and hose.			
		0.50					
D2		1.00		Orange brown, wet, fine to medium gravelly SAND.		7.5	
		2.00					
		2.50		Grey SANDSTONE.			
		3.00					
		3.50					
		4.00					
		4.50					
		5.00					
		5.50					
		6.00					
		6.50					

Groundwater Observations:
 Refused at 2.55m. Wet after 1m.

Borehole Record :BHF

DRILLING DETAILS	Drilling Date: 21 June 2019	GDP Project Ref: 1936
Drilling Company: Regional Drilling	Location: ELLGIA PLOT A	Bore Diameter: 100/80 (mm)
Drilling Method: Dynamic Sampling	Ground Elevation: (mAOD)	Co-ordinates:

Sample Reference	Sample Range	Depth (mBGL)	Graphic Log	Soil or Rock Field Material Description	SPT (blows/300mm)		PID (ppm)	Piezometer Construction Details And Groundwater Levels														
					0	10					20	30	40	50	60							
D1		0.00		Unreinforced concrete.																		
		0.50		MADE GROUND: Grey brown silty clayey sand and gravel of mixed lithology, brick, clinker and rare tarmac.																		
D2		1.00								10.4												
		1.50								6.8												
		2.00								4.6												
		2.50																				
		3.00																				
		3.50																				
		4.00																				
		4.50																				
		5.00																				
		5.50																				
		6.00																				
		6.50																				

Groundwater Observations:
 Refused at 2.6m.

APPENDIX 7

Laboratory Testing Certificates



Brownfield Consulting & Development

GD Pickles Ltd, registered in the UK: 09387115.
Biltons Farm, South Scarle Lane, Swinderby, Lincoln, LN6 9JA



Gareth Pickles
GD Pickles Ltd
Biltons Farm
South Scarle Lane
Swinderby
Lincoln
LN6 9JA

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

DETS Report No: 19-08990

Site Reference: Ellgia Plot A

Project / Job Ref: 1936

Order No: 1918

Sample Receipt Date: 25/06/2019

Sample Scheduled Date: 25/06/2019

Report Issue Number: 1

Reporting Date: 01/07/2019

Authorised by:

A handwritten signature in black ink, appearing to read "Dave Ashworth".

Dave Ashworth
Deputy Quality Manager

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Soil Analysis Certificate						
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	19/06/19	21/06/19	21/06/19
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ellgia Plot A	TP / BH No	BHA	BHA	BHB	BHC	BHC
Project / Job Ref: 1936	Additional Refs	D1	D2	D1	D1	D2
Order No: 1918	Depth (m)	0.40 - 0.50	1.10 - 1.30	0.70 - 1.00	0.30 - 0.50	2.40 - 2.60
Reporting Date: 01/07/2019	DETS Sample No	417225	417226	417227	417228	417229

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected		Detected	Not Detected
Sample Matrix ^(S)	Material Type	N/a	NONE			bundles of Crocidolite and Amosite fibres	
Asbestos Type ^(S)	PLM Result	N/a	ISO17025			Crocidolite Amosite	
Asbestos Quantification ^(S)	%	< 0.001	ISO17025			0.003	
pH	pH Units	N/a	MCERTS	8.1	6.5	9.0	8.7
Organic Matter	%	< 0.1	MCERTS	4.1	1.1	3.8	1.5
Arsenic (As)	mg/kg	< 2	MCERTS	12		18	34
Barium (Ba)	mg/kg	< 5	NONE	234		334	103
Beryllium (Be)	mg/kg	< 0.5	NONE	1.4		1.4	1.1
W/S Boron	mg/kg	< 1	NONE	8.5		7.3	1.7
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.9		1.7	0.4
Chromium (Cr)	mg/kg	< 2	MCERTS	41		58	23
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2		< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	1410		942	69
Lead (Pb)	mg/kg	< 3	MCERTS	576		807	51
Mercury (Hg)	mg/kg	< 1	NONE	< 1		< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	23		51	22
Selenium (Se)	mg/kg	< 3	NONE	< 3		< 3	< 3
Vanadium (V)	mg/kg	< 2	NONE	54		66	99
Zinc (Zn)	mg/kg	< 3	MCERTS	546		1040	94

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



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Soil Analysis Certificate					
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	21/06/19	
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Ellgia Plot A	TP / BH No	BHD	BHE	BHF	
Project / Job Ref: 1936	Additional Refs	D1	D1	D1	
Order No: 1918	Depth (m)	0.10 - 0.30	0.30 - 0.50	0.80 - 1.00	
Reporting Date: 01/07/2019	DETS Sample No	417230	417232	417233	

Determinand	Unit	RL	Accreditation	19/06/19	19/06/19	21/06/19
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Detected	Not Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	bundle of Chrysotile fibres	bundle of Chrysotile fibres	
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile	Chrysotile	
Asbestos Quantification ^(S)	%	< 0.001	ISO17025	0.009	0.001	
pH	pH Units	N/a	MCERTS	8.0	7.9	10.4
Organic Matter	%	< 0.1	MCERTS	4.2		1.6
Arsenic (As)	mg/kg	< 2	MCERTS	11	12	16
Barium (Ba)	mg/kg	< 5	NONE	250	273	59
Beryllium (Be)	mg/kg	< 0.5	NONE	4.1	1.1	0.8
W/S Boron	mg/kg	< 1	NONE	2.1	6.2	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.6	2.3	0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	34	142	55
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	236	699	14
Lead (Pb)	mg/kg	< 3	MCERTS	448	423	31
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	20	111	12
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 2	NONE	63	49	111
Zinc (Zn)	mg/kg	< 3	MCERTS	562	1770	54

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	21/06/19	19/06/19	19/06/19
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ellgia Plot A	TP / BH No	BHA	BHB	BHC	BHD	BHD
Project / Job Ref: 1936	Additional Refs	D1	D1	D1	D1	D2
Order No: 1918	Depth (m)	0.40 - 0.50	0.70 - 1.00	0.30 - 0.50	0.10 - 0.30	1.80 - 2.00
Reporting Date: 01/07/2019	DETS Sample No	417225	417227	417228	417230	417231

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	0.13	0.30	< 0.1	0.60	0.14
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.53	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	0.31	0.13	14.30	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	0.16	0.33	0.16	17.50	0.14
Phenanthrene	mg/kg	< 0.1	MCERTS	1.07	1.77	2.04	120	0.98
Anthracene	mg/kg	< 0.1	MCERTS	0.21	0.38	1.01	34.10	0.25
Fluoranthene	mg/kg	< 0.1	MCERTS	1.54	2.86	4.29	115	2.66
Pyrene	mg/kg	< 0.1	MCERTS	1.51	2.72	3.59	93.10	2.24
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.77	1.59	1.87	42.90	1.13
Chrysene	mg/kg	< 0.1	MCERTS	0.99	1.92	1.91	52	1.27
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.46	2.69	2	46.90	1.53
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.40	0.84	0.66	17.10	0.47
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.98	1.69	1.39	32.90	0.89
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.99	1.49	0.93	13.60	0.64
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.18	0.32	0.20	4.19	0.15
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.93	1.30	0.76	12.60	0.58
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	11.3	20.5	20.9	617	13

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



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Soil Analysis Certificate - Speciated PAHs					
DETS Report No: 19-08990	Date Sampled	19/06/19	21/06/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Ellgia Plot A	TP / BH No	BHE	BHF		
Project / Job Ref: 1936	Additional Refs	D1	D1		
Order No: 1918	Depth (m)	0.30 - 0.50	0.80 - 1.00		
Reporting Date: 01/07/2019	DETS Sample No	417232	417233		

Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg	< 0.1	MCERTS	0.17	1.92	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	3.34	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	4.18	
Phenanthrene	mg/kg	< 0.1	MCERTS	0.71	21.10	
Anthracene	mg/kg	< 0.1	MCERTS	0.13	5.43	
Fluoranthene	mg/kg	< 0.1	MCERTS	1.26	14.80	
Pyrene	mg/kg	< 0.1	MCERTS	1.15	10.80	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.66	4.90	
Chrysene	mg/kg	< 0.1	MCERTS	0.77	4.43	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.09	3.77	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.29	1.38	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.75	2.83	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.72	1.38	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.14	0.32	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.73	1.01	
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	8.6	81.6	

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



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Soil Analysis Certificate - TPH LQM Banded						
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	19/06/19	21/06/19	21/06/19
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ellgia Plot A	TP / BH No	BHA	BHA	BHB	BHC	BHC
Project / Job Ref: 1936	Additional Refs	D1	D2	D1	D1	D2
Order No: 1918	Depth (m)	0.40 - 0.50	1.10 - 1.30	0.70 - 1.00	0.30 - 0.50	2.40 - 2.60
Reporting Date: 01/07/2019	DETS Sample No	417225	417226	417227	417228	417229

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	11	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	8	< 3	12	< 3	< 3
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	626	< 10	362	< 10	< 10
Aliphatic >C35 - C44	mg/kg	< 10	NONE	94	< 10	25	< 10	< 10
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	739	< 30	399	< 30	< 30
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	5	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	15	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	6	< 2	9
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	48	< 3	60	13	67
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	435	< 10	271	44	112
Aromatic >C35 - C44	mg/kg	< 10	NONE	41	< 10	18	< 10	< 10
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	545	< 30	355	57	188
Total >C5 - C44	mg/kg	< 60	NONE	1284	< 60	753	< 60	188

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



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Soil Analysis Certificate - TPH LQM Banded					
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	21/06/19	
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Ellgia Plot A	TP / BH No	BHD	BHE	BHF	
Project / Job Ref: 1936	Additional Refs	D2	D1	D1	
Order No: 1918	Depth (m)	1.80 - 2.00	0.30 - 0.50	0.80 - 1.00	
Reporting Date: 01/07/2019	DETS Sample No	417231	417232	417233	

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	10	< 3	
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	< 10	240	< 10	
Aliphatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	< 30	250	< 30	
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	3	23	
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	6	59	77	
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	44	242	105	
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	23	< 10	
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	49	326	205	
Total >C5 - C44	mg/kg	< 60	NONE	< 60	576	205	

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	19/06/19	21/06/19	21/06/19
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ellgia Plot A	TP / BH No	BHA	BHA	BHB	BHC	BHC
Project / Job Ref: 1936	Additional Refs	D1	D2	D1	D1	D2
Order No: 1918	Depth (m)	0.40 - 0.50	1.10 - 1.30	0.70 - 1.00	0.30 - 0.50	2.40 - 2.60
Reporting Date: 01/07/2019	DETS Sample No	417225	417226	417227	417228	417229

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	5	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	34	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	9	< 2	83	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	28	< 2	263	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	32	< 2	171	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

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



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Soil Analysis Certificate - BTEX / MTBE					
DETS Report No: 19-08990	Date Sampled	19/06/19	19/06/19	21/06/19	
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Ellgia Plot A	TP / BH No	BHD	BHE	BHF	
Project / Job Ref: 1936	Additional Refs	D2	D1	D1	
Order No: 1918	Depth (m)	1.80 - 2.00	0.30 - 0.50	0.80 - 1.00	
Reporting Date: 01/07/2019	DETS Sample No	417231	417232	417233	

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

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



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)					
DETS Report No: 19-08990	Date Sampled	21/06/19	21/06/19	21/06/19	
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Ellgia Plot A	TP / BH No	BHC	BHC	BHF	
Project / Job Ref: 1936	Additional Refs	D1	D2	D1	
Order No: 1918	Depth (m)	0.30 - 0.50	2.40 - 2.60	0.80 - 1.00	
Reporting Date: 01/07/2019	DETS Sample No	417228	417229	417233	

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

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Soil Analysis Certificate - PCB (7 Congeners)					
DETS Report No: 19-08990	Date Sampled	21/06/19			
GD Pickles Ltd	Time Sampled	None Supplied			
Site Reference: Ellgia Plot A	TP / BH No	BHC			
Project / Job Ref: 1936	Additional Refs	D1			
Order No: 1918	Depth (m)	0.30 - 0.50			
Reporting Date: 01/07/2019	DETS Sample No	417228			

Determinand	Unit	RL	Accreditation				
PCB Congener 28	mg/kg	0.008	NONE	< 0.008			
PCB Congener 52	mg/kg	0.008	NONE	< 0.008			
PCB Congener 101	mg/kg	0.008	NONE	< 0.008			
PCB Congener 118	mg/kg	0.008	NONE	< 0.008			
PCB Congener 138	mg/kg	0.008	NONE	< 0.008			
PCB Congener 153	mg/kg	0.008	NONE	< 0.008			
PCB Congener 180	mg/kg	0.008	NONE	< 0.008			
Total PCB (7 Congeners)	mg/kg	< 0.1	NONE	< 0.1			

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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 19-08990	
GD Pickles Ltd	
Site Reference: Ellgia Plot A	
Project / Job Ref: 1936	
Order No: 1918	
Reporting Date: 01/07/2019	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
417225	BHA	D1	0.40 - 0.50	18.4	Brown loamy sand with brick and concrete
417226	BHA	D2	1.10 - 1.30	15.6	Brown loamy sand
417227	BHB	D1	0.70 - 1.00	15.5	Brown loamy sand with brick and concrete
417228	BHC	D1	0.30 - 0.50	13.6	Brown loamy sand with concrete
417229	BHC	D2	2.40 - 2.60	15.5	Brown sandy clay with stones
417230	BHD	D1	0.10 - 0.30	13.3	Brown loamy sand with brick and concrete
417231	BHD	D2	1.80 - 2.00	18.8	Brown loamy sand
417232	BHE	D1	0.30 - 0.50	13.8	Brown loamy sand with brick and concrete
417233	BHF	D1	0.80 - 1.00	13.5	Brown loamy sand with stones

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

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}

Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 19-08990	
GD Pickles Ltd	
Site Reference: Ellgia Plot A	
Project / Job Ref: 1936	
Order No: 1918	
Reporting Date: 01/07/2019	

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

D Dried
AR As Received



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DETS Report No: 19-10523

Site Reference: Ellgia Plot A

Project / Job Ref: 1936

Order No: 1936

Sample Receipt Date: 23/07/2019

Sample Scheduled Date: 23/07/2019

Report Issue Number: 1

Reporting Date: 29/07/2019

Authorised by:

A handwritten signature in black ink, appearing to read "Dave Ashworth".

Dave Ashworth
Technical Manager

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Water Analysis Certificate						
DETS Report No: 19-10523	Date Sampled	18/07/19	18/07/19			
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Ellgia Plot A	TP / BH No	BHB	BHD			
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied			
Order No: 1936	Depth (m)	12.45	1.15			
Reporting Date: 29/07/2019	DETS Sample No	423259	423260			

Determinand	Unit	RL	Accreditation	(hs)				
pH	pH Units	N/a	ISO17025	9.9	7.7			
Hardness - Total	mgCaCO3/l	< 1	NONE	1040	998			
Arsenic (dissolved)	ug/l	< 5	ISO17025	8	< 5			
Barium (dissolved)	ug/l	< 5	ISO17025	165	97			
Beryllium (dissolved)	ug/l	< 3	ISO17025	< 3	< 3			
Boron (dissolved)	ug/l	< 5	ISO17025	1600	1700			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5			
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	< 5			
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	0.44	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	15	8			
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5			
Vanadium (dissolved)	ug/l	< 5	ISO17025	39	< 5			
Zinc (dissolved)	ug/l	< 2	ISO17025	< 2	41			

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Speciated PAH					
DETS Report No: 19-10523	Date Sampled	18/07/19	18/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Eligia Plot A	TP / BH No	BHB	BHD		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936	Depth (m)	12.45	1.15		
Reporting Date: 29/07/2019	DETS Sample No	423259	423260		

Determinand	Unit	RL	Accreditation	(hs)				
Naphthalene	ug/l	< 0.01	NONE	0.29	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	0.34	0.02			
Fluorene	ug/l	< 0.01	NONE	0.20	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	0.26	< 0.01			
Anthracene	ug/l	< 0.01	NONE	0.05	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	0.15	0.08			
Pyrene	ug/l	< 0.01	NONE	0.12	0.05			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.01	NONE	1.41	0.15			



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Water Analysis Certificate - TPH CWG Banded					
DETS Report No: 19-10523	Date Sampled	18/07/19	18/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Ellgia Plot A	TP / BH No	BHB	BHD		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936	Depth (m)	12.45	1.15		
Reporting Date: 29/07/2019	DETS Sample No	423259	423260		

Determinand	Unit	RL	Accreditation	(hs)				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10			
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10			
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10			
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10			
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10			
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10			
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10			
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70			
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10			
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10			
Aromatic >C8 - C10	ug/l	< 10	NONE	420	< 10			
Aromatic >C10 - C12	ug/l	< 10	NONE	19	< 10			
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10			
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10			
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10			
Aromatic (C5 - C35)	ug/l	< 70	NONE	439	< 70			
Total >C5 - C35	ug/l	< 140	NONE	439	< 140			

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 19-10523	Date Sampled	18/07/19	18/07/19			
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Elgia Plot A	TP / BH No	BHB	BHD			
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied			
Order No: 1936	Depth (m)	12.45	1.15			
Reporting Date: 29/07/2019	DETS Sample No	423259	423260			

Determinand	Unit	RL	Accreditation	(hs)				
Benzene	ug/l	< 1	ISO17025	2	< 1			
Toluene	ug/l	< 5	ISO17025	< 5	< 5			
Ethylbenzene	ug/l	< 5	ISO17025	47	< 5			
p & m-xylene	ug/l	< 10	ISO17025	248	< 10			
o-xylene	ug/l	< 5	ISO17025	90	< 5			
MTBE	ug/l	< 10	ISO17025	< 10	< 10			

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Volatile Organic Compounds (VOC)					
DETS Report No: 19-10523	Date Sampled	18/07/19	18/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Elgia Plot A	TP / BH No	BHB	BHD		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936	Depth (m)	12.45	1.15		
Reporting Date: 29/07/2019	DETS Sample No	423259	423260		

Determinand	Unit	RL	Accreditation	(hs)				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5			
MTBE	ug/l	< 10	ISO17025	< 10	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10			
Benzene	ug/l	< 1	ISO17025	2	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5			
TAME	ug/l	< 5	ISO17025	< 5	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5			
Toluene	ug/l	< 5	ISO17025	< 5	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	47	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	248	< 10			
o-Xylene	ug/l	< 5	ISO17025	90	< 5			
Styrene	ug/l	< 5	ISO17025	< 5	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	10	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5			
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5			

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No:	19-10523
GD Pickles Ltd	
Site Reference:	Eligia Plot A
Project / Job Ref:	1936
Order No:	1936
Reporting Date:	29/07/2019

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LOM (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
 UF Unfiltered



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t: 01622 850410

DETS Report No: 19-10719

Site Reference: Elgia Scunthorpe

Project / Job Ref: 1936

Order No: 1936-DETS

Sample Receipt Date: 26/07/2019

Sample Scheduled Date: 26/07/2019

Report Issue Number: 2

Reporting Date: 02/08/2019

Authorised by:

A handwritten signature in black ink, appearing to read "Dave Ashworth".

Dave Ashworth
Technical Manager

This report supersedes 19-10719, issue no.1.
Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Water Analysis Certificate					
DETS Report No: 19-10719	Date Sampled	23/07/19	23/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Elgia Scunthorpe	TP / BH No	POND 1	POND 2		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936-DETS	Depth (m)	None Supplied	None Supplied		
Reporting Date: 02/08/2019	DETS Sample No	424094	424095		

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.7	7.5		
Hardness - Total	mgCaCO3/l	< 1	NONE	773	818		
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	5		
Barium (dissolved)	ug/l	< 5	ISO17025	33	44		
Beryllium (dissolved)	ug/l	< 3	ISO17025	< 3	< 3		
Boron (dissolved)	ug/l	< 5	ISO17025	1320	1410		
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4		
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5		
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	< 5		
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	11		
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05		
Nickel (dissolved)	ug/l	< 5	ISO17025	< 5	< 5		
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5		
Vanadium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5		
Zinc (dissolved)	ug/l	< 2	ISO17025	9	24		

Subcontracted analysis ^(S)
 Insufficient sample ^{I/S}
 Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH					
DETS Report No: 19-10719	Date Sampled	23/07/19	23/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Elgia Scunthorpe	TP / BH No	POND 1	POND 2		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936-DETS	Depth (m)	None Supplied	None Supplied		
Reporting Date: 02/08/2019	DETS Sample No	424094	424095		

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.05	0.04		
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Acenaphthene	ug/l	< 0.01	NONE	0.04	< 0.01		
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Phenanthrene	ug/l	< 0.01	NONE	0.02	< 0.01		
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008		
Total EPA-16 PAHs	ug/l	< 0.01	NONE	0.11	0.04		



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Water Analysis Certificate - TPH LQM Banded					
DETS Report No: 19-10719	Date Sampled	23/07/19	23/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Elgia Scunthorpe	TP / BH No	POND 1	POND 2		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936-DETS	Depth (m)	None Supplied	None Supplied		
Reporting Date: 02/08/2019	DETS Sample No	424094	424095		

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10		
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10		
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10		
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10		
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10		
Aliphatic >C16 - C35	ug/l	< 10	NONE	< 10	< 10		
Aliphatic >C35 - C44	ug/l	< 10	NONE	< 10	< 10		
Aliphatic (C5 - C44)	ug/l	< 70	NONE	< 70	< 70		
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10		
Aromatic >C35 - C44	ug/l	< 10	NONE	< 10	< 10		
Aromatic (>C5 - C44)	ug/l	< 70	NONE	< 70	< 70		
Total >C5 - C44	ug/l	< 140	NONE	< 140	< 140		



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 19-10719	Date Sampled	23/07/19	23/07/19			
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Elgia Scunthorpe	TP / BH No	POND 1	POND 2			
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied			
Order No: 1936-DETS	Depth (m)	None Supplied	None Supplied			
Reporting Date: 02/08/2019	DETS Sample No	424094	424095			

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1	< 1		
Toluene	ug/l	< 5	ISO17025	< 5	< 5		
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10		
o-xylene	ug/l	< 5	ISO17025	< 5	< 5		
MTBE	ug/l	< 10	ISO17025	< 10	< 10		



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Water Analysis Certificate - Volatile Organic Compounds (VOC)					
DETS Report No: 19-10719	Date Sampled	23/07/19	23/07/19		
GD Pickles Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Elgia Scunthorpe	TP / BH No	POND 1	POND 2		
Project / Job Ref: 1936	Additional Refs	None Supplied	None Supplied		
Order No: 1936-DETS	Depth (m)	None Supplied	None Supplied		
Reporting Date: 02/08/2019	DETS Sample No	424094	424095		

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5		
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5		
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5		
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5		
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5		
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5		
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5		
MTBE	ug/l	< 10	ISO17025	< 10	< 10		
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5		
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5		
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5		
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5		
Chloroform	ug/l	< 5	ISO17025	< 5	< 5		
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10		
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5		
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5		
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5		
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10		
Benzene	ug/l	< 1	ISO17025	< 1	< 1		
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5		
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5		
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5		
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5		
TAME	ug/l	< 5	ISO17025	< 5	< 5		
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5		
Toluene	ug/l	< 5	ISO17025	< 5	< 5		
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5		
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10		
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5		
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5		
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5		
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5		
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5		
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5		
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5		
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10		
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5		
Styrene	ug/l	< 5	ISO17025	< 5	< 5		
Bromoform	ug/l	< 10	ISO17025	< 10	< 10		
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10		
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5		
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5		
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5		
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5		
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5		
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5		
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5		
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5		
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5		
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10		
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5		



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 19-10719	
GD Pickles Ltd	
Site Reference: Elgia Scunthorpe	
Project / Job Ref: 1936	
Order No: 1936-DETS	
Reporting Date: 02/08/2019	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
 UF Unfiltered

APPENDIX 8

Photographs



Brownfield Consulting & Development

GD Pickles Ltd, registered in the UK: 09387115.
Biltons Farm, South Scarle Lane, Swinderby, Lincoln, LN6 9JA

View of Site from west end facing east



BHA Soil core



BHB Soil core



BHC Soil Core



BHD Soil Core



BHE Soil Core



BHF Soil Core

