



SOCOTEC

Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
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Certificate of Analysis

Project No: 21031776

Client: Donald Ward Ltd

Quote Number: BEC210216028

Project Reference: Donald Ward

Site Name: Chesterfield

Contact: Joanne Upton

Address: Donald Ward House
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Number of Samples Received: 1

Date Received: 24/03/2021

Analysis Date: 06/04/2021

Date Issued: 06/04/2021

Job Status: Complete

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory

Account Manager
Ayshea Dunsby

Authorised by the Operations Manager
Becky Batham



Client: Donald Ward Ltd

Project Name: Chesterfield

Project No: 21031776

Date Issued: 06/04/2021

Samples Analysed

<u>Sample Reference</u>	<u>Text ID</u>	<u>Sample Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
001	21031776-001	18/03/2021 11:20:00	WATER	Unclassified Liquid



Client: Donald Ward Ltd
 Project Name: Chesterfield
 Project No: 21031776
 Date Issued: 06/04/2021

Analysis Results

Project ID	21031776
Sample ID	001
Customer ID	001
Sample Type	WATER
Sampling Date	18/03/2021

Analysis	Method Code	MDL	Units	Accred	
Ammoniacal Nitrogen as N	KONENS	0.01	mg/l	N	1.80
>C6-C7 Aliphatic	GROHSA/BTEXHSA	0.1	mg/l	N	<0.100
>C7-C8 Aliphatic	GROHSA/BTEXHSA	0.1	mg/l	N	<0.100
>C7-C8 Aromatic	GROHSA/BTEXHSA	0.005	mg/l	N	<0.005
>C8-C10 Aliphatic	GROHSA/BTEXHSA	0.1	mg/l	N	<0.100
>C8-C10 Aromatic	GROHSA/BTEXHSA	0.02	mg/l	N	<0.020
C5-C6 Aliphatic	GROHSA/BTEXHSA	0.1	mg/l	N	<0.100
C5-C7 Aromatic	GROHSA/BTEXHSA	0.005	mg/l	N	<0.005
Total GRO C5-C10	GROHSA/BTEXHSA	0.1	mg/l	N	<0.100
Chromium (III)	CALC_CR3	0.01	mg/l	N	<0.010
Conductivity at 25°C	WSLM2 & 3	100	µS/cm	N	1520
pH	WSLM2 & 3	1	pH units	N	7.5
Chromium (VI) as Cr	KONENS	0.003	mg/l	N	<0.003
Arsenic as As	ICPMSW (Dissolved)	0.001	mg/l	N	0.001
Cadmium as Cd	ICPMSW (Dissolved)	0.00002	mg/l	N	0.00008
Total Chromium as Cr	ICPMSW (Dissolved)	0.001	mg/l	N	<0.001
Copper as Cu	ICPMSW (Dissolved)	0.001	mg/l	N	0.009
Lead as Pb	ICPMSW (Dissolved)	0.001	mg/l	N	0.003
Mercury as Hg	ICPMSW (Dissolved)	0.00003	mg/l	N	<0.00003
Nickel as Ni	ICPMSW (Dissolved)	0.001	mg/l	N	0.016
Selenium as Se	ICPMSW (Dissolved)	0.001	mg/l	N	<0.001
Zinc as Zn	ICPMSW (Dissolved)	0.002	mg/l	N	0.276
Total Chromium as Cr	ICPWATVAR (Dissolved)	0.01	mg/l	N	<0.01
Total Sulphur as SO4	ICPWATVAR (Dissolved)	3	mg/l	N	435



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Customer ID	001
Sample Type	WATER
Sampling Date	18/03/2021

Analysis	Method Code	MDL	Units	Accred	
Benzene	BTEXHSA	5	µg/l	N	<5
Ethylbenzene	BTEXHSA	5	µg/l	N	<5
m/p-Xylene	BTEXHSA	10	µg/l	N	<10
o-Xylene	BTEXHSA	5	µg/l	N	<5
Toluene	BTEXHSA	5	µg/l	N	<5
Acenaphthene	PAHMSW	0.01	µg/l	N	<0.01
Acenaphthylene	PAHMSW	0.01	µg/l	N	<0.01
Anthracene	PAHMSW	0.01	µg/l	N	<0.01
Benzo[a]anthracene	PAHMSW	0.01	µg/l	N	<0.01
Benzo[a]pyrene	PAHMSW	0.01	µg/l	N	<0.01
Benzo[b]fluoranthene	PAHMSW	0.01	µg/l	N	0.01
Benzo[g,h,i]perylene	PAHMSW	0.01	µg/l	N	<0.01
Benzo[k]fluoranthene	PAHMSW	0.01	µg/l	N	<0.01
Chrysene	PAHMSW	0.01	µg/l	N	<0.01
Dibenzo[a,h]anthracene	PAHMSW	0.01	µg/l	N	<0.01
Fluoranthene	PAHMSW	0.01	µg/l	N	<0.01
Fluorene	PAHMSW	0.01	µg/l	N	<0.01
Indeno[1,2,3-cd]pyrene	PAHMSW	0.01	µg/l	N	<0.01
Naphthalene	PAHMSW	0.01	µg/l	N	<0.01
Phenanthrene	PAHMSW	0.01	µg/l	N	<0.01
Pyrene	PAHMSW	0.01	µg/l	N	0.07
Total PAH 16	PAHMSW	0.16	µg/l	N	<0.22
>C10-C12 (Aliphatic)	TPHFID (Aliphatic)	0.01	mg/l	N	<0.01
>C12-C16 (Aliphatic)	TPHFID (Aliphatic)	0.01	mg/l	N	<0.01



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Accred	

Analysis	Method Code	MDL	Units	Accred	
>C16-C21 (Aliphatic)	TPHFID (Aliphatic)	0.01	mg/l	N	<0.01
>C21-C35 (Aliphatic)	TPHFID (Aliphatic)	0.01	mg/l	N	<0.01
Total TPH >C8-C40 (Aliphatic)	TPHFID (Aliphatic)	0.01	mg/l	N	0.02
>C10-C12 (Aromatic)	TPHFID (Aromatic)	0.01	mg/l	N	<0.01
>C12-C16 (Aromatic)	TPHFID (Aromatic)	0.01	mg/l	N	<0.01
>C16-C21 (Aromatic)	TPHFID (Aromatic)	0.01	mg/l	N	<0.01
>C21-C35 (Aromatic)	TPHFID (Aromatic)	0.01	mg/l	N	0.01
Total TPH >C8-C40 (Aromatic)	TPHFID (Aromatic)	0.01	mg/l	N	0.04

Additional Report Notes

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
PAHMSW	001	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Benzo[a]anthracene, Benzo[a]pyrene) . These circumstances should be taken into consideration when utilising the data.

LIMS-F002 - Report Notes

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
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Analysis Method

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Method</u>
BTEXHSA	ORGANIC	Unfiltered
CALC_CR3	CHEM	
GROHSA	ORGANIC	Unfiltered
GROHSA/BTEXHSA	ORGANIC	
ICPMSW (Dissolved)	METALS	Filtered
ICPWATVAR (Dissolved)	METALS	Filtered
KONENS	INORGANIC	Filtered
PAHMSW	ORGANIC	Unfiltered
TPHFID (Aliphatic)	ORGANIC	Unfiltered
TPHFID (Aromatic)	ORGANIC	Unfiltered
WSLM2 & 3	INORGANIC	Unfiltered

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis