

# Report Summary



**Miss Name Surname**  
**Name Of Company**  
**Torrington Avenue**  
**Coventry**  
**West Midlands**  
**CV4 9GU**

Date of Issue: **12 June 2017**

Report Number: **COV/1397709/2017**

Issue **1**

**Job Location:** West Midlands

Number of Samples  
included in this report **6**

Job Received: **12 June 2017**

Number of Test Results  
included in this report **258**

Analysis Commenced: **12 June 2017**

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **12 June 2017**

Title: **Organic Operations Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

(c) ALS Environmental Ltd 2017. All rights reserved. We, ALS Environmental Ltd, are the owner of all copyright in this report. You must not copy, reproduce, amend or adapt this report, its contents or any format in which it is delivered without our prior written agreement. If you copy, reproduce, amend, or adapt this report in any way without our agreement you will be liable for any damage or loss to us. In the event of a dispute the copy of the report held by us shall be the reference copy.

# Certificate of Analysis



Report Number: **COV/1397709/2017**

Issue **1**

Laboratory Number: **16144305**

Sample **1** of **6**

Site: **Building 1**

Asset Type: **223514123**

Position: **Room 5**

Output Type: **Blended123**

Level: **3**

Pre / Post: **Pre**

Zone: **Sink**

Temp °C: **25.0**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 June 2017 21:52**

Sample Received: **12 June 2017** Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	1	mg/l	12/06/2017	N Cov	WAS043
Nitrite as N	14	mg/l	12/06/2017	N Cov	WAS067
Nitrate as N	12	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	4	ug/l	12/06/2017	N Cov	WAS033
Chromium - Hexavalent	5	ug/l	12/06/2017	Y Cov	WAS031
Sulphate as SO4	1	g/l	12/06/2017	N Cov	WAS036
Chromium - Hexavalent	45	mg/l	12/06/2017	Y Cov	WAS031
Ferrous Iron	374	mg/l	12/06/2017	N Cov	WAS043
Ferric Iron	6	mg/l	12/06/2017	N Cov	WAS043
NID-Polyoxyethylene	1	mg/l	12/06/2017	N Cov	WAS032
Absorbance at 400nm	47		12/06/2017	N Cov	WAS027
Absorbance at 450nm	47		12/06/2017	N Cov	WAS027
Transmission	1	%	12/06/2017	N Cov	WAS074
Colour	5	mg/l Pt/Co	12/06/2017	N Cov	WAS065
Turbidity	12	NTU	12/06/2017	Y Cov	WAS066
Ammoniacal Nitrogen as N	12	mg/l	12/06/2017	N Cov	WAS036
Ammoniacal Nitrogen as N	223	mg/l	12/06/2017	Y Cov	WAS055
Ammonium as NH4, Low Level	5	mg/l	12/06/2017	Y Cov	WAS067
Ammoniacal Nitrogen as N (LL)	14	mg/l	12/06/2017	Y Cov	WAS067
Chloride as Cl	455	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, Low Level	45	mg/l	12/06/2017	N Cov	WAS067
Nitrite as N	54	mg/l	12/06/2017	N Cov	WAS036
Nitrate as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrite as NO2, Low Level	22	mg/l	12/06/2017	N Cov	WAS067
Nitrate as NO3, Low Level	112	mg/l	12/06/2017	N Cov	WAS067
Nitrogen, Total Oxidised as N	412	mg/l	12/06/2017	N Cov	WAS036
Nitrogen, total Oxidised as N	5	mg/l	12/06/2017	N Cov	WAS067
Phosphate, Ortho as P	2	mg/l	12/06/2017	N Cov	WAS036
Phosphate ortho as P, Filt	9753	mg/l	12/06/2017	N Cov	WAS036
Silica, Reactive as SiO2	45	mg/l	12/06/2017	N Cov	WAS067
Sulphate as SO4	145	mg/l	12/06/2017	N Cov	WAS036
Sulphate as SO4, Filtered	1	mg/l	12/06/2017	N Cov	WAS036

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
Laboratory Number: **16144305**

Issue **1**  
Sample **1** of **6**

Site: **Building 1**  
Position: **Room 5**  
Level: **3**  
Zone: **Sink**

Asset Type: **223514123**  
Output Type: **Blended123**  
Pre / Post: **Pre**  
Temp °C: **25.0**

Sample Matrix: **Ground Water**  
Sample Date/Time: **12 June 2017 21:52**  
Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Sulphate as SO4	1	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	232	mg/l	12/06/2017	N Cov	WAS033
Formaldehyde	45	mg/l	12/06/2017	N Cov	WAS030
Thiocyanate as SCN	112	mg/l	12/06/2017	Y Cov	WAS034
Salinity	56	ppt	12/06/2017	N Cov	WAS059
Redox Potential	75	mV	12/06/2017	N Cov	WAS061
Ammonium as NH4 (Calc)	6	mg/l	12/06/2017	N Cov	WAS036
Chlorthal dimethyl	7	ug/l	12/06/2017	Y Wak	WPC50
Salinity	41	mg/l	12/06/2017	N Cov	WAS059
Sulphate as SO4, High Level	3	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, High Level	17	mg/l	12/06/2017	N Cov	WAS036

**Analyst Comments for 16144305:**

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).  
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

Signed: *A Horobin*

Name: **A. Horobin**

Date: **12 June 2017**

Title: **Organic Operations Manager**

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
 Laboratory Number: **16144306**

Issue **1**  
 Sample **2** of **6**

Site: **Building 1**  
 Position: **Room 5**  
 Level: **3**  
 Zone: **Sink**

Asset Type: **223514123**  
 Output Type: **Blended123**  
 Pre / Post: **Post**  
 Temp °C: **25.0**

Sample Matrix: **Ground Water**  
 Sample Date/Time: **12 June 2017 21:52**  
 Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	4	mg/l	12/06/2017	N Cov	WAS043
Nitrite as N	45	mg/l	12/06/2017	N Cov	WAS067
Nitrate as N	1	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	14	ug/l	12/06/2017	N Cov	WAS033
Chromium - Hexavalent	214	ug/l	12/06/2017	Y Cov	WAS031
Sulphate as SO4	54	g/l	12/06/2017	N Cov	WAS036
Chromium - Hexavalent	122	mg/l	12/06/2017	Y Cov	WAS031
Ferrous Iron	5	mg/l	12/06/2017	N Cov	WAS043
Ferric Iron	3	mg/l	12/06/2017	N Cov	WAS043
NID-Polyoxyethylene	1	mg/l	12/06/2017	N Cov	WAS032
Absorbance at 400nm	4		12/06/2017	N Cov	WAS027
Absorbance at 450nm	5		12/06/2017	N Cov	WAS027
Transmission	45	%	12/06/2017	N Cov	WAS074
Colour	1	mg/l Pt/Co	12/06/2017	N Cov	WAS065
Turbidity	2	NTU	12/06/2017	Y Cov	WAS066
Ammoniacal Nitrogen as N	55	mg/l	12/06/2017	N Cov	WAS036
Ammoniacal Nitrogen as N	4	mg/l	12/06/2017	Y Cov	WAS055
Ammonium as NH4, Low Level	55	mg/l	12/06/2017	Y Cov	WAS067
Ammoniacal Nitrogen as N (LL)	12	mg/l	12/06/2017	Y Cov	WAS067
Chloride as Cl	4	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, Low Level	2	mg/l	12/06/2017	N Cov	WAS067
Nitrite as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrate as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrite as NO2, Low Level	2	mg/l	12/06/2017	N Cov	WAS067
Nitrate as NO3, Low Level	4	mg/l	12/06/2017	N Cov	WAS067
Nitrogen, Total Oxidised as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrogen, total Oxidised as N	12	mg/l	12/06/2017	N Cov	WAS067
Phosphate, Ortho as P	4	mg/l	12/06/2017	N Cov	WAS036
Phosphate ortho as P, Filt	4	mg/l	12/06/2017	N Cov	WAS036
Silica, Reactive as SiO2	1	mg/l	12/06/2017	N Cov	WAS067
Sulphate as SO4	6	mg/l	12/06/2017	N Cov	WAS036
Sulphate as SO4, Filtered	2	mg/l	12/06/2017	N Cov	WAS036

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
 Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
Laboratory Number: **16144306**

Issue **1**  
Sample **2** of **6**

Site: **Building 1**  
Position: **Room 5**  
Level: **3**  
Zone: **Sink**

Asset Type: **223514123**  
Output Type: **Blended123**  
Pre / Post: **Post**  
Temp °C: **25.0**

Sample Matrix: **Ground Water**  
Sample Date/Time: **12 June 2017 21:52**  
Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Sulphate as SO4	0	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	6	mg/l	12/06/2017	N Cov	WAS033
Formaldehyde	1	mg/l	12/06/2017	N Cov	WAS030
Thiocyanate as SCN	4	mg/l	12/06/2017	Y Cov	WAS034
Salinity	14	ppt	12/06/2017	N Cov	WAS059
Redox Potential	5	mV	12/06/2017	N Cov	WAS061
Ammonium as NH4 (Calc)	4	mg/l	12/06/2017	N Cov	WAS036
Chlorthal dimethyl	45	ug/l	12/06/2017	Y Wak	WPC50
Salinity	174	mg/l	12/06/2017	N Cov	WAS059
Sulphate as SO4, High Level	3	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, High Level	7	mg/l	12/06/2017	N Cov	WAS036

**Analyst Comments for 16144306:**

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).  
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **12 June 2017**

Title: **Organic Operations Manager**

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
 Laboratory Number: **16144307**

Issue **1**  
 Sample **3** of **6**

Site: **Building 2**  
 Position: **Room 2**  
 Level: **1**  
 Zone: **Toilet**

Asset Type: **225488512**  
 Output Type: **Cold123**  
 Pre / Post: **Pre**  
 Temp °C: **5.0**

Sample Matrix: **Ground Water**  
 Sample Date/Time: **12 June 2017 21:52**  
 Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	1	mg/l	12/06/2017	N Cov	WAS043
Nitrite as N	2	mg/l	12/06/2017	N Cov	WAS067
Nitrate as N	3	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	4	ug/l	12/06/2017	N Cov	WAS033
Chromium - Hexavalent	4	ug/l	12/06/2017	Y Cov	WAS031
Sulphate as SO4	2	g/l	12/06/2017	N Cov	WAS036
Chromium - Hexavalent	1	mg/l	12/06/2017	Y Cov	WAS031
Ferrous Iron	36	mg/l	12/06/2017	N Cov	WAS043
Ferric Iron	4	mg/l	12/06/2017	N Cov	WAS043
NID-Polyoxyethylene	42	mg/l	12/06/2017	N Cov	WAS032
Absorbance at 400nm	1		12/06/2017	N Cov	WAS027
Absorbance at 450nm	5		12/06/2017	N Cov	WAS027
Transmission	2	%	12/06/2017	N Cov	WAS074
Colour	4	mg/l Pt/Co	12/06/2017	N Cov	WAS065
Turbidity	51	NTU	12/06/2017	Y Cov	WAS066
Ammoniacal Nitrogen as N	2	mg/l	12/06/2017	N Cov	WAS036
Ammoniacal Nitrogen as N	1	mg/l	12/06/2017	Y Cov	WAS055
Ammonium as NH4, Low Level	45	mg/l	12/06/2017	Y Cov	WAS067
Ammoniacal Nitrogen as N (LL)	4	mg/l	12/06/2017	Y Cov	WAS067
Chloride as Cl	1	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, Low Level	1	mg/l	12/06/2017	N Cov	WAS067
Nitrite as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrate as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrite as NO2, Low Level	4	mg/l	12/06/2017	N Cov	WAS067
Nitrate as NO3, Low Level	5	mg/l	12/06/2017	N Cov	WAS067
Nitrogen, Total Oxidised as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrogen, total Oxidised as N	4	mg/l	12/06/2017	N Cov	WAS067
Phosphate, Ortho as P	32	mg/l	12/06/2017	N Cov	WAS036
Phosphate ortho as P, Filt	3	mg/l	12/06/2017	N Cov	WAS036
Silica, Reactive as SiO2	4	mg/l	12/06/2017	N Cov	WAS067
Sulphate as SO4	1	mg/l	12/06/2017	N Cov	WAS036
Sulphate as SO4, Filtered	22	mg/l	12/06/2017	N Cov	WAS036

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
 Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
Laboratory Number: **16144307**

Issue **1**  
Sample **3** of **6**

Site: **Building 2**  
Position: **Room 2**  
Level: **1**  
Zone: **Toilet**

Asset Type: **225488512**  
Output Type: **Cold123**  
Pre / Post: **Pre**  
Temp °C: **5.0**

Sample Matrix: **Ground Water**  
Sample Date/Time: **12 June 2017 21:52**  
Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Sulphate as SO4	4	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	2	mg/l	12/06/2017	N Cov	WAS033
Formaldehyde	1	mg/l	12/06/2017	N Cov	WAS030
Thiocyanate as SCN	45	mg/l	12/06/2017	Y Cov	WAS034
Salinity	6	ppt	12/06/2017	N Cov	WAS059
Redox Potential	5	mV	12/06/2017	N Cov	WAS061
Ammonium as NH4 (Calc)	4	mg/l	12/06/2017	N Cov	WAS036
Chlorthal dimethyl	3	ug/l	12/06/2017	Y Wak	WPC50
Salinity	4	mg/l	12/06/2017	N Cov	WAS059
Sulphate as SO4, High Level	2	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, High Level	1	mg/l	12/06/2017	N Cov	WAS036

**Analyst Comments for 16144307:**

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).  
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **12 June 2017**

Title: **Organic Operations Manager**

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
 Laboratory Number: **16144308**

Issue **1**  
 Sample **4** of **6**

Site: **Building 2**  
 Position: **Room 2**  
 Level: **1**  
 Zone: **Toilet**

Asset Type: **225488512**  
 Output Type: **Cold123**  
 Pre / Post: **Post**  
 Temp °C: **5.0**

Sample Matrix: **Ground Water**  
 Sample Date/Time: **12 June 2017 21:52**  
 Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	3	mg/l	12/06/2017	N Cov	WAS043
Nitrite as N	1	mg/l	12/06/2017	N Cov	WAS067
Nitrate as N	7	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	85	ug/l	12/06/2017	N Cov	WAS033
Chromium - Hexavalent	3	ug/l	12/06/2017	Y Cov	WAS031
Sulphate as SO4	1	g/l	12/06/2017	N Cov	WAS036
Chromium - Hexavalent	5	mg/l	12/06/2017	Y Cov	WAS031
Ferrous Iron	1	mg/l	12/06/2017	N Cov	WAS043
Ferric Iron	4	mg/l	12/06/2017	N Cov	WAS043
NID-Polyoxyethylene	4	mg/l	12/06/2017	N Cov	WAS032
Absorbance at 400nm	4		12/06/2017	N Cov	WAS027
Absorbance at 450nm	5		12/06/2017	N Cov	WAS027
Transmission	1	%	12/06/2017	N Cov	WAS074
Colour	4	mg/l Pt/Co	12/06/2017	N Cov	WAS065
Turbidity	5	NTU	12/06/2017	Y Cov	WAS066
Ammoniacal Nitrogen as N	2	mg/l	12/06/2017	N Cov	WAS036
Ammoniacal Nitrogen as N	1	mg/l	12/06/2017	Y Cov	WAS055
Ammonium as NH4, Low Level	4	mg/l	12/06/2017	Y Cov	WAS067
Ammoniacal Nitrogen as N (LL)	1	mg/l	12/06/2017	Y Cov	WAS067
Chloride as Cl	1	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, Low Level	3	mg/l	12/06/2017	N Cov	WAS067
Nitrite as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrate as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrite as NO2, Low Level	3	mg/l	12/06/2017	N Cov	WAS067
Nitrate as NO3, Low Level	2	mg/l	12/06/2017	N Cov	WAS067
Nitrogen, Total Oxidised as N	22	mg/l	12/06/2017	N Cov	WAS036
Nitrogen, total Oxidised as N	3	mg/l	12/06/2017	N Cov	WAS067
Phosphate, Ortho as P	3	mg/l	12/06/2017	N Cov	WAS036
Phosphate ortho as P, Filt	4	mg/l	12/06/2017	N Cov	WAS036
Silica, Reactive as SiO2	54	mg/l	12/06/2017	N Cov	WAS067
Sulphate as SO4	2	mg/l	12/06/2017	N Cov	WAS036
Sulphate as SO4, Filtered	5	mg/l	12/06/2017	N Cov	WAS036

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
 Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575



# Certificate of Analysis



Report Number: **COV/1397709/2017**  
Laboratory Number: **16144308**

Issue **1**  
Sample **4** of **6**

Site: **Building 2**  
Position: **Room 2**  
Level: **1**  
Zone: **Toilet**

Asset Type: **225488512**  
Output Type: **Cold123**  
Pre / Post: **Post**  
Temp °C: **5.0**

Sample Matrix: **Ground Water**  
Sample Date/Time: **12 June 2017 21:52**  
Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Sulphate as SO4	2	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	2	mg/l	12/06/2017	N Cov	WAS033
Formaldehyde	24	mg/l	12/06/2017	N Cov	WAS030
Thiocyanate as SCN	4	mg/l	12/06/2017	Y Cov	WAS034
Salinity	4	ppt	12/06/2017	N Cov	WAS059
Redox Potential	7	mV	12/06/2017	N Cov	WAS061
Ammonium as NH4 (Calc)	1	mg/l	12/06/2017	N Cov	WAS036
Chlorthal dimethyl	21	ug/l	12/06/2017	Y Wak	WPC50
Salinity	12	mg/l	12/06/2017	N Cov	WAS059
Sulphate as SO4, High Level	32	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, High Level	1	mg/l	12/06/2017	N Cov	WAS036

**Analyst Comments for 16144308:**

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).  
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **12 June 2017**

Title: **Organic Operations Manager**

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**

Issue **1**

Laboratory Number: **16144309**

Sample **5** of **6**

Site: **Building 3**

Asset Type: **225502754**

Position: **Room 7**

Output Type: **Hot123**

Level: **Gr**

Pre / Post: **Pre**

Zone: **Kitchen**

Temp °C: **80.0**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 June 2017 21:52**

Sample Received: **12 June 2017** Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	1	mg/l	12/06/2017	N Cov	WAS043
Nitrite as N	4	mg/l	12/06/2017	N Cov	WAS067
Nitrate as N	5	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	86	ug/l	12/06/2017	N Cov	WAS033
Chromium - Hexavalent	4	ug/l	12/06/2017	Y Cov	WAS031
Sulphate as SO4	7	g/l	12/06/2017	N Cov	WAS036
Chromium - Hexavalent	5	mg/l	12/06/2017	Y Cov	WAS031
Ferrous Iron	6	mg/l	12/06/2017	N Cov	WAS043
Ferric Iron	54	mg/l	12/06/2017	N Cov	WAS043
NID-Polyoxyethylene	6	mg/l	12/06/2017	N Cov	WAS032
Absorbance at 400nm	4		12/06/2017	N Cov	WAS027
Absorbance at 450nm	5		12/06/2017	N Cov	WAS027
Transmission	1	%	12/06/2017	N Cov	WAS074
Colour	4	mg/l Pt/Co	12/06/2017	N Cov	WAS065
Turbidity	5	NTU	12/06/2017	Y Cov	WAS066
Ammoniacal Nitrogen as N	12	mg/l	12/06/2017	N Cov	WAS036
Ammoniacal Nitrogen as N	1	mg/l	12/06/2017	Y Cov	WAS055
Ammonium as NH4, Low Level	56	mg/l	12/06/2017	Y Cov	WAS067
Ammoniacal Nitrogen as N (LL)	2	mg/l	12/06/2017	Y Cov	WAS067
Chloride as Cl	2	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, Low Level	1	mg/l	12/06/2017	N Cov	WAS067
Nitrite as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrate as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrite as NO2, Low Level	5	mg/l	12/06/2017	N Cov	WAS067
Nitrate as NO3, Low Level	1	mg/l	12/06/2017	N Cov	WAS067
Nitrogen, Total Oxidised as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrogen, total Oxidised as N	1	mg/l	12/06/2017	N Cov	WAS067
Phosphate, Ortho as P	3	mg/l	12/06/2017	N Cov	WAS036
Phosphate ortho as P, Filt	1	mg/l	12/06/2017	N Cov	WAS036
Silica, Reactive as SiO2	4	mg/l	12/06/2017	N Cov	WAS067
Sulphate as SO4	2	mg/l	12/06/2017	N Cov	WAS036
Sulphate as SO4, Filtered	6	mg/l	12/06/2017	N Cov	WAS036

ALS Environmental Ltd

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
 Laboratory Number: **16144309**

Issue **1**  
 Sample **5** of **6**

Site: **Building 3**  
 Position: **Room 7**  
 Level: **Gr**  
 Zone: **Kitchen**

Asset Type: **225502754**  
 Output Type: **Hot123**  
 Pre / Post: **Pre**  
 Temp °C: **80.0**

Sample Matrix: **Ground Water**  
 Sample Date/Time: **12 June 2017 21:52**  
 Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Sulphate as SO4	1	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	2	mg/l	12/06/2017	N Cov	WAS033
Formaldehyde	325	mg/l	12/06/2017	N Cov	WAS030
Thiocyanate as SCN	4	mg/l	12/06/2017	Y Cov	WAS034
Salinity	4	ppt	12/06/2017	N Cov	WAS059
Redox Potential	4	mV	12/06/2017	N Cov	WAS061
Ammonium as NH4 (Calc)	56	mg/l	12/06/2017	N Cov	WAS036
Chlorthal dimethyl	5	ug/l	12/06/2017	Y Wak	WPC50
Salinity	48	mg/l	12/06/2017	N Cov	WAS059
Sulphate as SO4, High Level	5	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, High Level	1	mg/l	12/06/2017	N Cov	WAS036

Analyst Comments for 16144309: No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).  
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

Signed: <i>A I Horobin</i>	Name: <b>A. Horobin</b>	Date: <b>12 June 2017</b>
	Title: <b>Organic Operations Manager</b>	

ALS Environmental Ltd

Torrington Avenue, Coventry, CV4 9GU  
 Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
 Laboratory Number: **16144310**

Issue **1**  
 Sample **6** of **6**

Site: **Building 3**  
 Position: **Room 7**  
 Level: **Gr**  
 Zone: **Kitchen**

Asset Type: **225502754**  
 Output Type: **Hot123**  
 Pre / Post: **Post**  
 Temp °C: **80.0**

Sample Matrix: **Ground Water**  
 Sample Date/Time: **12 June 2017 21:52**  
 Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	1	mg/l	12/06/2017	N Cov	WAS043
Nitrite as N	1	mg/l	12/06/2017	N Cov	WAS067
Nitrate as N	45	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	5	ug/l	12/06/2017	N Cov	WAS033
Chromium - Hexavalent	5	ug/l	12/06/2017	Y Cov	WAS031
Sulphate as SO4	4	g/l	12/06/2017	N Cov	WAS036
Chromium - Hexavalent	1	mg/l	12/06/2017	Y Cov	WAS031
Ferrous Iron	5	mg/l	12/06/2017	N Cov	WAS043
Ferric Iron	1	mg/l	12/06/2017	N Cov	WAS043
NID-Polyoxyethylene	1	mg/l	12/06/2017	N Cov	WAS032
Absorbance at 400nm	2		12/06/2017	N Cov	WAS027
Absorbance at 450nm	1		12/06/2017	N Cov	WAS027
Transmission	5	%	12/06/2017	N Cov	WAS074
Colour	12	mg/l Pt/Co	12/06/2017	N Cov	WAS065
Turbidity	4	NTU	12/06/2017	Y Cov	WAS066
Ammoniacal Nitrogen as N	56	mg/l	12/06/2017	N Cov	WAS036
Ammoniacal Nitrogen as N	12	mg/l	12/06/2017	Y Cov	WAS055
Ammonium as NH4, Low Level	2	mg/l	12/06/2017	Y Cov	WAS067
Ammoniacal Nitrogen as N (LL)	5	mg/l	12/06/2017	Y Cov	WAS067
Chloride as Cl	74	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, Low Level	5	mg/l	12/06/2017	N Cov	WAS067
Nitrite as N	4	mg/l	12/06/2017	N Cov	WAS036
Nitrate as N	5	mg/l	12/06/2017	N Cov	WAS036
Nitrite as NO2, Low Level	124	mg/l	12/06/2017	N Cov	WAS067
Nitrate as NO3, Low Level	45	mg/l	12/06/2017	N Cov	WAS067
Nitrogen, Total Oxidised as N	1	mg/l	12/06/2017	N Cov	WAS036
Nitrogen, total Oxidised as N	5	mg/l	12/06/2017	N Cov	WAS067
Phosphate, Ortho as P	52	mg/l	12/06/2017	N Cov	WAS036
Phosphate ortho as P, Filt	1	mg/l	12/06/2017	N Cov	WAS036
Silica, Reactive as SiO2	53	mg/l	12/06/2017	N Cov	WAS067
Sulphate as SO4	12	mg/l	12/06/2017	N Cov	WAS036
Sulphate as SO4, Filtered	56	mg/l	12/06/2017	N Cov	WAS036

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
 Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

# Certificate of Analysis



Report Number: **COV/1397709/2017**  
Laboratory Number: **16144310**

Issue **1**  
Sample **6** of **6**

Site: **Building 3**  
Position: **Room 7**  
Level: **Gr**  
Zone: **Kitchen**

Asset Type: **225502754**  
Output Type: **Hot123**  
Pre / Post: **Post**  
Temp °C: **80.0**

Sample Matrix: **Ground Water**  
Sample Date/Time: **12 June 2017 21:52**  
Sample Received: **12 June 2017**

Analysis Complete: **12 June 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Sulphate as SO4	5	mg/l	12/06/2017	N Cov	WAS067
Sulphide as S	5	mg/l	12/06/2017	N Cov	WAS033
Formaldehyde	274	mg/l	12/06/2017	N Cov	WAS030
Thiocyanate as SCN	2	mg/l	12/06/2017	Y Cov	WAS034
Salinity	5	ppt	12/06/2017	N Cov	WAS059
Redox Potential	5	mV	12/06/2017	N Cov	WAS061
Ammonium as NH4 (Calc)	5	mg/l	12/06/2017	N Cov	WAS036
Chlorthal dimethyl	74	ug/l	12/06/2017	Y Wak	WPC50
Salinity	1	mg/l	12/06/2017	N Cov	WAS059
Sulphate as SO4, High Level	5	mg/l	12/06/2017	N Cov	WAS036
Chloride as Cl, High Level	45	mg/l	12/06/2017	N Cov	WAS036

**Analyst Comments for 16144310:**

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).  
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **12 June 2017**

Title: **Organic Operations Manager**

**ALS Environmental Ltd**

Torrington Avenue, Coventry, CV4 9GU  
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575