

ALS Environmental Ltd
Torrington Avenue
Coventry
CV4 9GU

T: +44 (0)24 7642 1213
F: +44 (0)24 7685 6575
www.alsenvironmental.co.uk

Mr Lloyd
Caerphilly County B.C.
Caerphilly County Borough
Council
Unit B5
Tiryberth Depot
Hengoed CF82 8AU
Caerphilly

05 December 2017

Test Report: COV/1470276/2017

Dear Mr Lloyd

Analysis of your sample(s) submitted on 23 November 2017 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

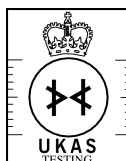
Signed: *B. Phillips*

Name: B. Phillips

Title: Inorganic Team Leader



Report Summary



1314
0897
4409



**Mr Rhodri Lloyd
Caerphilly County B.C.
Caerphilly County Borough
Council
Unit B5
Tiryberth Depot
Hengoed
Caerphilly**

Date of Issue: **05 December 2017**

Report Number: **COV/1470276/2017**

Issue **1**

This issue replaces
all previous issues

Job Description: Trehir Landfill Site

Job Location: Caerphilly

Number of Samples
included in this report **21**

Job Received: **23 November 2017**

Number of Test Results
included in this report **157**

Analysis Commenced: **25 November 2017**

Signed:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd was responsible for sampling.

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/1470276/2017**

Issue **1**

Laboratory Number: **16616908**

Sample **1** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **03**

Sample Description: **03**

Sample Matrix: **Land Leachate**

Sample Date/Time: **24 November 2017 11:05**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	16.2	Deg C	25/11/2017	N Cov	FIELD
pH	7.4	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	2190	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	121	mg/l	29/11/2017	Y Cov	WAS055
BOD + ATU (5 day)	8	mg/l	30/11/2017	Y Cov	WAS001
COD (Total)	172	mg/l	30/11/2017	Y Cov	WAS040
Chloride as Cl, High Level	160	mg/l	28/11/2017	Y Cov	WAS036

Analyst Comments for 16616908:

{/*}Ammonia analysed by colorimetric method{*/}

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616909**

Sample **2** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **08**

Sample Description: **08**

Sample Matrix: **Land Leachate**

Sample Date/Time: **24 November 2017 10:05**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.3	Deg C	25/11/2017	N Cov	FIELD
pH	7.7	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	1420	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	50.1	mg/l	29/11/2017	Y Cov	WAS055
BOD + ATU (5 day)	2	mg/l	30/11/2017	Y Cov	WAS001
COD (Total)	69.0	mg/l	30/11/2017	Y Cov	WAS040
Chloride as Cl, High Level	96.1	mg/l	28/11/2017	Y Cov	WAS036

Analyst Comments for 16616909:

{/*}Ammonia analysed by colorimetric method{*/}

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616910**

Sample **3** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **MHL28**

Sample Description: **MHL28**

Sample Matrix: **Land Leachate**

Sample Date/Time: **24 November 2017 10:35**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	15.1	Deg C	25/11/2017	N Cov	FIELD
pH	7.7	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	1880	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	87.7	mg/l	29/11/2017	Y Cov	WAS055
BOD + ATU (5 day)	21	mg/l	30/11/2017	Y Cov	WAS001
COD (Total)	110	mg/l	30/11/2017	Y Cov	WAS040
Chloride as Cl, High Level	127	mg/l	28/11/2017	Y Cov	WAS036

Analyst Comments for 16616910:

{/*}Ammonia analysed by colorimetric method{*/}

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616911**

Sample **4** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N2**

Sample Description: **N2**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:17**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.5	Deg C	25/11/2017	N Cov	FIELD
pH	6.6	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	196	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	7.2	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	3.2	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	<11.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	3.20	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616911:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616912**

Sample **5** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N5**

Sample Description: **N5**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 12:35**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.9	Deg C	25/11/2017	N Cov	FIELD
pH	6.8	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	1080	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.80	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	161	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	1.8	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	116	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	6.18	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616912:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 6 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616913**

Sample **6** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N6**

Sample Description: **N6**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 12:10**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.5	Deg C	25/11/2017	N Cov	FIELD
pH	6.7	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	986	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	18.9	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	66.7	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	0.7	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	46.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	0.00	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616913:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616914**

Sample **7** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N8**

Sample Description: **N8**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 13:00**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.4	Deg C	25/11/2017	N Cov	FIELD
pH	7.0	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	822	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	204	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	2.6	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	25.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	2.40	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616914:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616915**

Sample **8** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH1**

Sample Description: **NBH1**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 12:22**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.8	Deg C	25/11/2017	N Cov	FIELD
pH	7.1	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	1940	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	Analyst Com	mg/l	04/12/2017	N Cov	WAS036
Chloride as Cl	Analyst Com	mg/l	04/12/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	0.6	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	7050	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	5.98	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616915:

Unable to analyse for ammonia and chloride due to oily nature of sample.

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616916**

Sample **9** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH2**

Sample Description: **NBH2**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 11:05**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.8	Deg C	25/11/2017	N Cov	FIELD
pH	6.7	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	2350	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	119	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	154	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	<0.5	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	155	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	2.70	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616916:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 10 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616917**

Sample **10** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH3**

Sample Description: **NBH3**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 11:22**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.5	Deg C	25/11/2017	N Cov	FIELD
pH	6.6	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	950	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	10.1	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	28.8	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	6.0	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	16.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	5.55	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616917:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

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/1470276/2017**

Issue **1**

Laboratory Number: **16616918**

Sample **11** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH4**

Sample Description: **NBH4**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 11:00**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.1	Deg C	25/11/2017	N Cov	FIELD
pH	6.2	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	683	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	12.5	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	10.7	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	79.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	17.50	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616918:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 12 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616919**

Sample **12** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH5**

Sample Description: **NBH5**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:10**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.8	Deg C	25/11/2017	N Cov	FIELD
pH	6.2	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	593	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	0.76	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	18.4	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	2.0	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	21.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	5.54	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616919:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 13 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616920**

Sample **13** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH6**

Sample Description: **NBH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:25**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.0	Deg C	25/11/2017	N Cov	FIELD
pH	6.3	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	138	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	16.1	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	7.2	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	47.0	mg/l	30/11/2017	Y Cov	WAS040
Water Level to top of Casing	6.65	m	27/11/2017	N Cov	COM05

Analyst Comments for 16616920:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 14 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616921**

Sample **14** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W1**

Sample Description: **W1**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 09:25**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.3	Deg C	25/11/2017	N Cov	FIELD
pH	7.4	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	163	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	12.1	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	9.4	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	29.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616921:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 15 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616922**

Sample **15** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W2**

Sample Description: **W2**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 09:30**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.3	Deg C	25/11/2017	N Cov	FIELD
pH	7.5	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	163	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	11.8	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	10.1	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	19.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616922:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 16 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616923**

Sample **16** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W3**

Sample Description: **W3**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 09:40**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.3	Deg C	25/11/2017	N Cov	FIELD
pH	7.5	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	162	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	11.1	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	9.7	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	24.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616923:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 17 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616924**

Sample **17** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W5**

Sample Description: **W5**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:13**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.0	Deg C	25/11/2017	N Cov	FIELD
pH	7.2	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	159	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	15.7	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	9.1	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	16.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616924:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 18 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616925**

Sample **18** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Groundwater Sump**

Sample Description: **SUMP**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:25**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.6	Deg C	25/11/2017	N Cov	FIELD
pH	6.9	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	964	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	198	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	6.3	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	19.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616925:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 19 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616926**

Sample **19** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Land Drain 1**

Sample Description: **LAND DRAIN 1a**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 09:55**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	15.1	Deg C	25/11/2017	N Cov	FIELD
pH	7.6	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	1810	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	78.1	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	124	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	5.6	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	108	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616926:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 20 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616927**

Sample **20** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Land Drain 1**

Sample Description: **LAND DRAIN 1b**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:00**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.1	Deg C	25/11/2017	N Cov	FIELD
pH	7.0	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	845	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	7.76	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	59.0	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	5.1	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	29.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616927:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 21 of 24

Certificate of Analysis



Report Number: **COV/1470276/2017**

Issue **1**

Laboratory Number: **16616928**

Sample **21** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Land Drain 2**

Sample Description: **LAND DRAIN 2**

Sample Matrix: **Ground Water**

Sample Date/Time: **24 November 2017 10:00**

Sample Received: **23 November 2017**

Analysis Complete: **05 December 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.3	Deg C	25/11/2017	N Cov	FIELD
pH	7.5	pH units	25/11/2017	Y Cov	WAS039
Conductivity- Electrical 20C	827	uS/cm	25/11/2017	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	28/11/2017	N Cov	WAS036
Chloride as Cl	82.1	mg/l	28/11/2017	N Cov	WAS036
Dissolved Oxygen, Fixed	9.0	mg/l	27/11/2017	Y Cov	WAS052
COD (Total)	12.0	mg/l	30/11/2017	Y Cov	WAS040

Analyst Comments for 16616928:

No Analyst Comment

This issue replaces all previous issues

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

Analysed at: Che = Chester(CH4 9EP), Ctd = Coatbridge(ML5 4FR), Cov = Coventry(CV4 9GU), 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:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd

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

Page 22 of 24

ANALYST COMMENTS FOR REPORT COV/1470276/2017

Issue 1 This issue replaces
all previous issues

Date of Issue: 05 December 2017

Sample No	Analysis Comments
16616908	{/*}Ammonia analysed by colorimetric method{/*}
16616909	{/*}Ammonia analysed by colorimetric method{/*}
16616910	{/*}Ammonia analysed by colorimetric method{/*}
16616911	
16616912	
16616913	
16616914	
16616915	Unable to analyse for ammonia and chloride due to oily nature of sample.
16616916	
16616917	
16616918	
16616919	
16616920	
16616921	
16616922	
16616923	
16616924	
16616925	
16616926	
16616927	
16616928	

Signed:

B. Phillips

Name: **B. Phillips**

Date: **05 December 2017**

Title: **Inorganic Team Leader**

DETERMINAND COMMENTS FOR REPORT COV/1470276/2017

Date of Issue: 05 December 2017

ISSUE 1

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments

Signed:	<i>B. Phillips</i>	Name: B. Phillips	Date: 05 December 2017
		Title: Inorganic Team Leader	