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Mr Lloyd
Caerphilly County B.C.
Civic Centre
Pontlanfraith
Blackwood NP12 2YW
Caerphilly

06 May 2016

Test Report: COV/1275749/2016

Dear Mr Lloyd

Analysis of your sample(s) submitted on 20 April 2016 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,

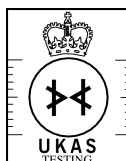
Signed: *B. Phillips*

Name: B. Phillips

Title: Inorganic Team Leader



Report Summary



1314
0897
4409



**Mr Rhodri Lloyd
Caerphilly County B.C.
Civic Centre
Pontlanfraith
Blackwood
Caerphilly
NP12 2YW**

Date of Issue: **06 May 2016**

Report Number: **COV/1275749/2016**

Issue **1**

Job Description: Trehir Landfill Site

Job Location: Caerphilly

Number of Samples
included in this report **19**

Job Received: **20 April 2016**

Number of Test Results
included in this report **141**

Analysis Commenced: **21 April 2016**

Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

ALS Environmental Ltd was responsible for sampling. Sampling is not covered by our UKAS accreditation.

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.

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Certificate of Analysis



Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249093**

Sample **1** of **19**

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

Sample Point Description: **03**

Sample Description: **03**

Sample Matrix: **Land Leachate**

Sample Date/Time: **20 April 2016 11:40**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	17.0	Deg C	26/04/2016	N Cov	FIELD
pH	7.7	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2720	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	143	mg/l	26/04/2016	Y Cov	WAS055
BOD + ATU (5 day)	38	mg/l	27/04/2016	N Cov	WAS001
COD (Total)	5560	mg/l	22/04/2016	Y Cov	WAS040
Chloride as Cl, High Level	257	mg/l	22/04/2016	Y Cov	WAS036

Analyst Comments for 15249093:

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

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249094**

Sample **2** of **19**

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

Sample Point Description: **08**

Sample Description: **08**

Sample Matrix: **Land Leachate**

Sample Date/Time: **20 April 2016 10:07**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.6	Deg C	26/04/2016	N Cov	FIELD
pH	8.2	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1550	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	66.4	mg/l	26/04/2016	Y Cov	WAS055
BOD + ATU (5 day)	<1	mg/l	27/04/2016	N Cov	WAS001
COD (Total)	89.0	mg/l	22/04/2016	Y Cov	WAS040
Chloride as Cl, High Level	129	mg/l	22/04/2016	Y Cov	WAS036

Analyst Comments for 15249094:

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

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249095**

Sample **3** of **19**

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

Sample Point Description: **MHL28**

Sample Description: **MHL28**

Sample Matrix: **Land Leachate**

Sample Date/Time: **20 April 2016 10:30**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.3	Deg C	26/04/2016	N Cov	FIELD
pH	8.2	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2630	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	145	mg/l	26/04/2016	Y Cov	WAS055
BOD + ATU (5 day)	8	mg/l	27/04/2016	N Cov	WAS001
COD (Total)	179	mg/l	22/04/2016	Y Cov	WAS040
Chloride as Cl, High Level	229	mg/l	22/04/2016	Y Cov	WAS036

Analyst Comments for 15249095:

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

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).
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I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249096**

Sample **4** of **19**

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

Sample Point Description: **N2**

Sample Description: **N2**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 12:40**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.7	Deg C	26/04/2016	N Cov	FIELD
pH	7.1	pH units	06/05/2016	Y Cov	WAS039
Conductivity- Electrical 20C	173	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	7.9	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	4.9	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	43.0	mg/l	22/04/2016	Y Cov	WAS040
Water Level to top of Casing	7.30	m	26/04/2016	N Cov	IN SITU M

Analyst Comments for 15249096:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249097**

Sample **5** of **19**

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

Sample Point Description: **N6**

Sample Description: **N6**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 10:50**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	10.5	Deg C	26/04/2016	N	Cov	FIELD
pH	7.2	pH units	27/04/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	905	uS/cm	27/04/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	18.6	mg/l	22/04/2016	N	Cov	WAS036
Chloride as Cl	50.3	mg/l	22/04/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	1.4	mg/l	22/04/2016	Y	Cov	WAS052
COD (Total)	30.0	mg/l	22/04/2016	Y	Cov	WAS040
Water Level to top of Casing	0.00	m	26/04/2016	N	Cov	IN SITU M

Analyst Comments for 15249097:

No Analyst Comment

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).

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I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249098**

Sample **6** of **19**

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

Sample Point Description: **N8**

Sample Description: **N8**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 10:20**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.1	Deg C	26/04/2016	N Cov	FIELD
pH	7.6	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	862	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	5.17	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	174	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	0.5	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	43.0	mg/l	22/04/2016	Y Cov	WAS040
Water Level to top of Casing	3.18	m	26/04/2016	N Cov	IN SITU M

Analyst Comments for 15249098:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249099**

Sample **7** of **19**

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

Sample Point Description: **NBH1**

Sample Description: **NBH1**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 11:20**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.0	Deg C	26/04/2016	N Cov	FIELD
pH	7.5	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1770	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	48.5	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	143	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	0.9	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	93.0	mg/l	22/04/2016	Y Cov	WAS040
Water Level to top of Casing	2.62	m	26/04/2016	N Cov	IN SITU M

Analyst Comments for 15249099:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249100**

Sample **8** of **19**

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

Sample Point Description: **NBH3**

Sample Description: **NBH3**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 11:50**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.2	Deg C	26/04/2016	N Cov	FIELD
pH	7.1	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1140	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	12.5	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	43.8	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	2.9	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	49.0	mg/l	22/04/2016	Y Cov	WAS040
Water Level to top of Casing	6.42	m	26/04/2016	N Cov	IN SITU M

Analyst Comments for 15249100:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249101**

Sample **9** of **19**

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

Sample Point Description: **NBH4**

Sample Description: **NBH4**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 12:10**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.7	Deg C	26/04/2016	N Cov	FIELD
pH	6.8	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	557	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	12.3	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	3.9	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	100	mg/l	22/04/2016	Y Cov	WAS040
Water Level to top of Casing	16.85	m	26/04/2016	N Cov	IN SITU M

Analyst Comments for 15249101:

No Analyst Comment

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).

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Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249102**

Sample **10** of **19**

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

Sample Point Description: **NBH5**

Sample Description: **NBH5**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 13:20**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	13.0	Deg C	26/04/2016	N	Cov	FIELD
pH	6.8	pH units	27/04/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	448	uS/cm	27/04/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N	Cov	WAS036
Chloride as Cl	18.0	mg/l	22/04/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	3.6	mg/l	22/04/2016	Y	Cov	WAS052
COD (Total)	61.0	mg/l	22/04/2016	Y	Cov	WAS040
Water Level to top of Casing	6.20	m	26/04/2016	N	Cov	IN SITU M

Analyst Comments for 15249102:

No Analyst Comment

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).

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Signed:

B. Phillips

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249103**

Sample **11** of **19**

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

Sample Point Description: **NBH6**

Sample Description: **NBH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 12:59**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	9.9	Deg C	26/04/2016	N	Cov	FIELD
pH	6.9	pH units	27/04/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	169	uS/cm	27/04/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N	Cov	WAS036
Chloride as Cl	13.4	mg/l	22/04/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	3.4	mg/l	22/04/2016	Y	Cov	WAS052
COD (Total)	80.0	mg/l	22/04/2016	Y	Cov	WAS040
Water Level to top of Casing	12.51	m	26/04/2016	N	Cov	IN SITU M

Analyst Comments for 15249103:

No Analyst Comment

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).

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Signed:

Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249104**

Sample **12** of **19**

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

Sample Point Description: **W1**

Sample Description: **W1**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 09:35**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.1	Deg C	26/04/2016	N Cov	FIELD
pH	8.3	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	400	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	16.2	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.7	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249104:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

B. Phillips

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Date: **06 May 2016**

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249105**

Sample **13** of **19**

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

Sample Point Description: **W2**

Sample Description: **W2**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 09:36**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.6	Deg C	26/04/2016	N Cov	FIELD
pH	8.1	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	384	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	0.56	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	21.9	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.9	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249105:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249106**

Sample **14** of **19**

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

Sample Point Description: **W3**

Sample Description: **W3**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 09:30**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.4	Deg C	26/04/2016	N Cov	FIELD
pH	8.3	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	405	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	19.2	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	8.2	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249106:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249107**

Sample **15** of **19**

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

Sample Point Description: **W5**

Sample Description: **W5**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 12:11**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.0	Deg C	26/04/2016	N Cov	FIELD
pH	7.8	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	119	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	13.5	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.2	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249107:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249108**

Sample **16** of **19**

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

Sample Point Description: **Groundwater Sump**

Sample Description: **SUMP**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 10:35**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	15.1	Deg C	26/04/2016	N Cov	FIELD
pH	7.5	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1360	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	19.8	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	164	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	5.3	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	126	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249108:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249109**

Sample **17** of **19**

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

Sample Point Description: **Land Drain 1**

Sample Description: **LAND DRAIN 1a**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 10:00**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.1	Deg C	26/04/2016	N Cov	FIELD
pH	8.2	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2590	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	142	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	240	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	2.7	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	177	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249109:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249110**

Sample **18** of **19**

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

Sample Point Description: **Land Drain 1b**

Sample Description: **LAND DRAIN 1b**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 10:02**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.1	Deg C	26/04/2016	N Cov	FIELD
pH	7.8	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	618	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	6.02	mg/l	23/04/2016	N Cov	WAS036
Chloride as Cl	55.4	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	6.7	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	22.0	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249110:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

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Report Number: **COV/1275749/2016**

Issue **1**

Laboratory Number: **15249111**

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

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

Sample Point Description: **Land Drain 2**

Sample Description: **LAND DRAIN 2**

Sample Matrix: **Ground Water**

Sample Date/Time: **20 April 2016 10:05**

Sample Received: **20 April 2016**

Analysis Complete: **06 May 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.8	Deg C	26/04/2016	N Cov	FIELD
pH	8.4	pH units	27/04/2016	Y Cov	WAS039
Conductivity- Electrical 20C	708	uS/cm	27/04/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/04/2016	N Cov	WAS036
Chloride as Cl	62.3	mg/l	22/04/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	5.0	mg/l	22/04/2016	Y Cov	WAS052
COD (Total)	16.0	mg/l	22/04/2016	Y Cov	WAS040

Analyst Comments for 15249111:

No Analyst Comment

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).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

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Date: **06 May 2016**

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ANALYST COMMENTS FOR REPORT
COV/1275749/2016
Issue 1
Date of Issue: 06 May 2016

Sample No	Analysis Comments
15249093	{/*}Ammonia analysed by colorimetric method{/*}
15249094	{/*}Ammonia analysed by colorimetric method{/*}
15249095	{/*}Ammonia analysed by colorimetric method{/*}
15249096	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15249097	
15249098	
15249099	
15249100	
15249101	
15249102	
15249103	
15249104	
15249105	
15249106	
15249107	
15249108	
15249109	
15249110	
15249111	

Signed:



Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**

DETERMINAND COMMENTS FOR REPORT COV/1275749/2016
ISSUE 1
Date of Issue : 06 May 2016

Sample No	Description	Determinand	Comments
15249093	03	Field Temperature	Not Specified
15249094	08	Field Temperature	Not Specified
15249095	MHL28	Field Temperature	Not Specified
15249096	N2	Field Temperature	Not Specified
15249097	N6	Field Temperature	Not Specified
15249098	N8	Field Temperature	Not Specified
15249099	NBH1	Field Temperature	Not Specified
15249100	NBH3	Field Temperature	Not Specified
15249101	NBH4	Field Temperature	Not Specified
15249102	NBH5	Field Temperature	Not Specified
15249103	NBH6	Field Temperature	Not Specified
15249104	W1	Field Temperature	Not Specified
15249105	W2	Field Temperature	Not Specified
15249106	W3	Field Temperature	Not Specified
15249107	W5	Field Temperature	Not Specified
15249108	SUMP	Field Temperature	Not Specified
15249109	LAND DRAIN 1a	Field Temperature	Not Specified
15249110	LAND DRAIN 1b	Field Temperature	Not Specified
15249111	LAND DRAIN 2	Field Temperature	Not Specified

Signed:



Name: **B. Phillips**

Date: **06 May 2016**

Title: **Inorganic Team Leader**