

ALS Environmental Ltd
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Bieber
Durham University
Department of Chemistry
Durham University, Lower
Mountjoy
Stockton Road
Durham DH1 3LE

10 January 2020

Test Report: COV/1815732/2019

Dear Bieber

Analysis of your sample(s) submitted on 20 December 2019 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:

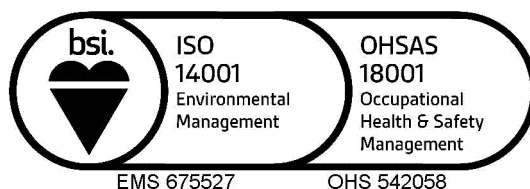


Name:

D. Lewis

Title:

Inorganic Team Leader



Report Summary

Vera Bieber
Durham University
Department of Chemistry
Durham University, Lower Mountjoy
Stockton Road
Durham
DH1 3LE



ANALYSED BY



Date of Issue: **10 January 2020**

Report Number: **COV/1815732/2019**

Issue **1**

This issue replaces
all previous issues

Job Description: Pond and Control Water Analysis

Number of Samples
included in this report **3**

Job Received: **20 December 2019**

Number of Test Results
included in this report **12**

Analysis Commenced: **22 December 2019**

Signed:

Name: **D. Lewis**

Date: **10 January 2020**

Title: **Inorganic Team Leader**

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.

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/1815732/2019**

Laboratory Number: **18903125**

Sample Source: **Durham University**

Sample Point Description:

Sample Description: **Pond 1**

Sample Matrix: **Surface Water**

Sample Date/Time: **17 December 2019 15:55**

Sample Received: **20 December 2019**

Analysis Complete: **03 January 2020**

Issue **1**

Sample **1** of **3**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Phosphate as P, Soluble	<0.120	mg/l	02/01/2020	Y Cov	WAS049
Chloride as Cl	3.9	mg/l	22/12/2019	Y Cov	WAS036
Nitrate as N	<0.7	mg/l	22/12/2019	Y Cov	WAS036
Sulphate as SO4	<4.4	mg/l	22/12/2019	Y Cov	WAS036

Analyst Comments for 18903125:

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

This issue replaces all previous issues

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

Analysed at: CHE = Chester(CH5 3US), 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.

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

Signed:

Name: **D. Lewis**

Date: **10 January 2020**

Title: **Inorganic Team Leader**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/1815732/2019**

Laboratory Number: **18903126**

Sample Source: **Durham University**

Sample Point Description:

Sample Description: **Pond 2**

Sample Matrix: **Surface Water**

Sample Date/Time: **17 December 2019 15:55**

Sample Received: **20 December 2019**

Analysis Complete: **03 January 2020**

Issue **1**

Sample **2** of **3**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Phosphate as P, Soluble	<0.120	mg/l	02/01/2020	Y Cov	WAS049
Chloride as Cl	4.1	mg/l	22/12/2019	Y Cov	WAS036
Nitrate as N	<0.7	mg/l	22/12/2019	Y Cov	WAS036
Sulphate as SO4	<4.4	mg/l	22/12/2019	Y Cov	WAS036

Analyst Comments for 18903126:

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

This issue replaces all previous issues

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

Analysed at: CHE = Chester(CH5 3US), 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.

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

Signed:

Name: **D. Lewis**

Date: **10 January 2020**

Title: **Inorganic Team Leader**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/1815732/2019**

Laboratory Number: **18903127**

Sample Source: **Durham University**

Sample Point Description:

Sample Description: **Control**

Sample Matrix: **Not Specified**

Sample Date/Time: **17 December 2019 15:35**

Sample Received: **20 December 2019**

Analysis Complete: **03 January 2020**

Issue **1**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
Phosphate as P, Soluble	13	mg/l	02/01/2020	N Cov	WAS049
Chloride as Cl	13.5	mg/l	22/12/2019	N Cov	WAS036
Nitrate as N	5.0	mg/l	22/12/2019	N Cov	WAS036
Sulphate as SO4	35.5	mg/l	22/12/2019	N Cov	WAS036

Analyst Comments for 18903127:

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

This issue replaces all previous issues

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

Analysed at: CHE = Chester(CH5 3US), 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.

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

Signed:

Name: **D. Lewis**

Date: **10 January 2020**

Title: **Inorganic Team Leader**

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ANALYST COMMENTS FOR REPORT COV/1815732/2019

Issue 1 This issue replaces
all previous issues

Date of Issue: 10 January 2020

Sample No	Analysis Comments
18903125	This sample has been analysed for Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised.
18903126	This sample has been analysed for Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised.
18903127	This sample has been analysed for Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised.

Signed: 

Name: **D. Lewis**

Date: **10 January 2020**

Title: **Inorganic Team Leader**

DETERMINAND COMMENTS FOR REPORT COV/1815732/2019

Date of Issue: 10 January 2020

ISSUE 1

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments

Signed:



Name: D. Lewis

Date: 10 January 2020

Title: Inorganic Team Leader