

ALS Environmental Ltd
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Mr Hunter
Vale of Glamorgan Council
Alps Depot
Quarry Rd
Wenvoe CF5 6AA
Glamorgan

19 January 2018

Test Report: COV/1473564/2017

Dear Mr Hunter

Analysis of your sample(s) submitted on 30 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:



Name: A. Zunzunegui

Title: Organic Team Leader



Report Summary



1314
0897
4409



Mr Billy Hunter
Vale of Glamorgan Council
Alps Depot
Quarry Rd
Wenvoe
Glamorgan
CF5 6AA

Date of Issue: **19 January 2018**

Report Number: **COV/1473564/2017**

Issue **1**

This issue replaces
all previous issues

Job Description: Surface Water Monitoring

Number of Samples
included in this report **4**

Job Received: **30 November 2017**

Number of Test Results
included in this report **40**

Analysis Commenced: **02 December 2017**

Signed:

Name: **A. Zunzunegui**

Date: **19 January 2018**

Title: **Organic 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



Report Number: **COV/1473564/2017**

Issue **1**

Laboratory Number: **16636885**

Sample **1** of **4**

Sample Source: **Vale of Glamorgan Council**

Sample Point Description: **Vale of Glamorgan Council**

Sample Description: **Sample 1**

Sample Matrix: **Surface Water**

Sample Date/Time: **29 November 2017**

Sample Received: **30 November 2017**

Analysis Complete: **12 January 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chromium , Total as Cr	367	ug/l	07/12/2017	N Cov	WAS049
Copper , Total as Cu	11.1	ug/l	07/12/2017	N Cov	WAS049
Lead , Total as Pb	<6.00	ug/l	07/12/2017	N Cov	WAS049
Nickel , Total as Ni	229	ug/l	07/12/2017	N Cov	WAS049
Zinc , Total as Zn	<18.0	ug/l	07/12/2017	N Cov	WAS049
pH	7.7	pH units	13/12/2017	N Cov	WAS039
Ammoniacal Nitrogen as N (LL)	0.41	mg/l	05/12/2017	N Cov	WAS067
Chloride as Cl	93.9	mg/l	02/12/2017	Y Cov	WAS036
Total Suspended Solids	10.0	mg/l	06/12/2017	Y Cov	WAS006
BOD + ATU (5 day)	6	mg/l	11/12/2017	Y Cov	WAS001

Analyst Comments for 16636885:

This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.

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).

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

Signed:

Name: **A. Zunzunegui**

Date: **19 January 2018**

Title: **Organic Team Leader**

ALS Environmental Ltd

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Certificate of Analysis



Report Number: **COV/1473564/2017**

Issue **1**

Laboratory Number: **16636886**

Sample **2** of **4**

Sample Source: **Vale of Glamorgan Council**

Sample Point Description: **Vale of Glamorgan Council**

Sample Description: **Sample 2**

Sample Matrix: **Surface Water**

Sample Date/Time: **29 November 2017**

Sample Received: **30 November 2017**

Analysis Complete: **12 January 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chromium , Total as Cr	163	ug/l	07/12/2017	N Cov	WAS049
Copper , Total as Cu	<9.00	ug/l	07/12/2017	N Cov	WAS049
Lead , Total as Pb	<6.00	ug/l	07/12/2017	N Cov	WAS049
Nickel , Total as Ni	15.8	ug/l	11/12/2017	N Cov	WAS049
Zinc , Total as Zn	<18.0	ug/l	07/12/2017	N Cov	WAS049
pH	7.7	pH units	13/12/2017	N Cov	WAS039
Ammoniacal Nitrogen as N (LL)	0.51	mg/l	05/12/2017	N Cov	WAS067
Chloride as Cl	94.1	mg/l	02/12/2017	Y Cov	WAS036
Total Suspended Solids	10.0	mg/l	06/12/2017	Y Cov	WAS006
BOD + ATU (5 day)	6	mg/l	11/12/2017	Y Cov	WAS001

Analyst Comments for 16636886:

This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.

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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: **A. Zunzunegui**

Date: **19 January 2018**

Title: **Organic Team Leader**

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Certificate of Analysis



Report Number: **COV/1473564/2017**

Issue **1**

Laboratory Number: **16636887**

Sample **3** of **4**

Sample Source: **Vale of Glamorgan Council**

Sample Point Description: **Vale of Glamorgan Council**

Sample Description: **Sample 3**

Sample Matrix: **Surface Water**

Sample Date/Time: **29 November 2017**

Sample Received: **30 November 2017**

Analysis Complete: **12 January 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chromium , Total as Cr	108	ug/l	07/12/2017	N Cov	WAS049
Copper , Total as Cu	<9.00	ug/l	07/12/2017	N Cov	WAS049
Lead , Total as Pb	<6.00	ug/l	07/12/2017	N Cov	WAS049
Nickel , Total as Ni	13.8	ug/l	11/12/2017	N Cov	WAS049
Zinc , Total as Zn	<18.0	ug/l	07/12/2017	N Cov	WAS049
pH	7.8	pH units	13/12/2017	N Cov	WAS039
Ammoniacal Nitrogen as N (LL)	0.45	mg/l	05/12/2017	N Cov	WAS067
Chloride as Cl	94.0	mg/l	02/12/2017	Y Cov	WAS036
Total Suspended Solids	16.0	mg/l	06/12/2017	Y Cov	WAS006
BOD + ATU (5 day)	6	mg/l	11/12/2017	Y Cov	WAS001

Analyst Comments for 16636887:

This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.

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).

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

Signed:

Name: **A. Zunzunegui**

Date: **19 January 2018**

Title: **Organic Team Leader**

ALS Environmental Ltd

Torrington Avenue, Coventry, CV4 9GU
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Certificate of Analysis



Report Number: **COV/1473564/2017**

Issue **1**

Laboratory Number: **16636888**

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

Sample Source: **Vale of Glamorgan Council**

Sample Point Description: **Vale of Glamorgan Council**

Sample Description: **Sample 4**

Sample Matrix: **Surface Water**

Sample Date/Time: **29 November 2017**

Sample Received: **30 November 2017**

Analysis Complete: **12 January 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chromium , Total as Cr	<2.00	ug/l	08/12/2017	N Cov	WAS049
Copper , Total as Cu	<9.00	ug/l	08/12/2017	N Cov	WAS049
Lead , Total as Pb	<6.00	ug/l	08/12/2017	N Cov	WAS049
Nickel , Total as Ni	<3.00	ug/l	08/12/2017	N Cov	WAS049
Zinc , Total as Zn	<18.0	ug/l	08/12/2017	N Cov	WAS049
pH	7.7	pH units	13/12/2017	N Cov	WAS039
Ammoniacal Nitrogen as N (LL)	0.33	mg/l	05/12/2017	N Cov	WAS067
Chloride as Cl	93.6	mg/l	02/12/2017	Y Cov	WAS036
Total Suspended Solids	12.0	mg/l	06/12/2017	Y Cov	WAS006
BOD + ATU (5 day)	7	mg/l	11/12/2017	Y Cov	WAS001

Analyst Comments for 16636888:

This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.

This issue replaces all previous issues

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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).

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

Signed:

Name: **A. Zunzunegui**

Date: **19 January 2018**

Title: **Organic Team Leader**

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ANALYST COMMENTS FOR REPORT COV/1473564/2017

Issue 1 This issue replaces all previous issues

Date of Issue: **19 January 2018**

Sample No	Analysis Comments
16636885	This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.
16636886	This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.
16636887	This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.
16636888	This sample has been analysed for pH, BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised. BOD analysis carried out over a six day incubation period which is a deviation from our documented test method WAS001, results are however associated with passing AQC samples.

Signed:



Name: **A. Zunzunegui**

Date: **19 January 2018**

Title: **Organic Team Leader**

DETERMINAND COMMENTS FOR REPORT COV/1473564/2017

Date of Issue: 19 January 2018

ISSUE 1

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments

Signed: 	Name: A. Zunzunegui	Date: 19 January 2018
	Title: Organic Team Leader	