

ALS Environmental Ltd Torrington Avenue Coventry CV4 9GU

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

13 July 2022

Test Report: COV/2336915/2022

Dear Mr Morris

Mr Morris Enviroarm Ltd

597 Walsall Road

Walsall WS6 6AE Staffordshire

Great Wyrley

Analysis of your sample(s) submitted on 29 June 2022 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,

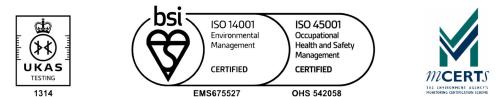
Signed:

Name:

A. Zunzunegui

Title:

Organics Chemistry Manager



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.

Report Summary

Mr Andy Morris

ANALYSED BY



Enviroarm Ltd 597 Walsall Road Great Wyrley Walsall Staffordshire WS6 6AE	2022			
Report Number:	COV/2336915	/2022	Issue 1	This issue replaces all previous issues
Job Description:	Water Analysis			
Job Location:	Chadwich Lane			
Number of Samples included in this report	5		Job Received:	29 June 2022
Number of Test Results included in this report	5 125		Analysis Commenced:	30 June 2022
Signed:	~	Name: Title:	A. Zunzunegui Organics Chemistry Ma	Date: 13 July 2022 nager

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 and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory. This test report is not a statement of conformity to any specification or standard.

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ANALYSED BY



Report Number: Laboratory Number: Sample Source:

Sample Matrix:

Sample Date/Time:

Sample Received:

Analysis Complete:

Sample Point Description: Sample Description:

Enviroarm Ltd BH1 Not Specified 27 June 2022 29 June 2022 13 July 2022

21776012

COV/2336915/2022

Issue	1	
Sample	1	of

5

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	<0.0006	mg/l	09/07/2022	N Cov	WAS049
Calcium , Total as Ca	38.5	mg/l	09/07/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	09/07/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	09/07/2022	N Cov	WAS049
Iron , Total as Fe	1.04	mg/l	09/07/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	09/07/2022	N Cov	WAS049
Magnesium, Total as Mg	14.1	mg/l	09/07/2022	N Cov	WAS049
Manganese , Total as Mn	121	ug/l	09/07/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	06/07/2022	N Cov	WAS013
Nickel , Total as Ni	20.3	ug/l	09/07/2022	N Cov	WAS049
Potassium , Total as K	8.83	mg/l	09/07/2022	N Cov	WAS049
Sodium , Total as Na	15.6	mg/l	09/07/2022	N Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	09/07/2022	N Cov	WAS049
рН	6.6	pH units	01/07/2022	N Cov	WAS039
Conductivity- Electrical 20C	342	uS/cm	05/07/2022	N Cov	WAS039
Alkalinity as CaCO3	76.0	mg/l	01/07/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.09	mg/l	30/06/2022	N Cov	WAS067
Chloride as Cl	24.6	mg/l	30/06/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	30/06/2022	N Cov	WAS036
Nitrate as N	5.9	mg/l	30/06/2022	N Cov	WAS036
Sulphate as SO4	53.7	mg/l	30/06/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	5.0	mg/l	30/06/2022	N Cov	WAS052
COD (Total)	<11.0	mg/l	11/07/2022	N Cov	WAS040

Certificate o		ANALYSED	ЗҮ				
Report Number: Laboratory Number:	COV/2336915/2022 21776012		ALS			ssue Sample	1 1 of 5
Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:	Enviroarm Ltd BH1 Not Specified 27 June 2022 29 June 2022 13 July 2022						
Test Desc	ription	Result	Units	Analysis Date	Accre	ditation	Method
TOC (Filtered)		2.7	mg/l	30/06/2022	N	Cov	WAS005
Cyanide, Total as CN		<0.009	mg/l	30/06/2022	Ν	Cov	WAS018

This sample has been analysed for pH, COD (Total) 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), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer. 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.

Signe

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Name: A. Zunzunegui

Date: 13 July 2022

ANALYSED BY



Report Number: Laboratory Number: Sample Source: Sample Point Description:

Sample Description: Sample Matrix:

Sample Date/Time:

Sample Received: Analysis Complete: Enviroarm Ltd BH2 Not Specified 27 June 2022 29 June 2022 13 July 2022

21776013

COV/2336915/2022

Issue 1 Sample 2 of 5

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0006	mg/l	09/07/2022	N Cov	WAS049
Calcium , Total as Ca	37.9	mg/l	09/07/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	09/07/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	09/07/2022	N Cov	WAS049
Iron , Total as Fe	1.39	mg/l	09/07/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	09/07/2022	N Cov	WAS049
Magnesium, Total as Mg	14.0	mg/l	09/07/2022	N Cov	WAS049
Manganese , Total as Mn	96.8	ug/l	09/07/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	06/07/2022	N Cov	WAS013
Nickel , Total as Ni	18.5	ug/l	09/07/2022	N Cov	WAS049
Potassium , Total as K	8.64	mg/l	09/07/2022	N Cov	WAS049
Sodium , Total as Na	15.5	mg/l	09/07/2022	N Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	09/07/2022	N Cov	WAS049
рН	6.6	pH units	01/07/2022	N Cov	WAS039
Conductivity- Electrical 20C	345	uS/cm	05/07/2022	N Cov	WAS039
Alkalinity as CaCO3	75.6	mg/l	01/07/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	30/06/2022	N Cov	WAS067
Chloride as Cl	24.8	mg/l	30/06/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	30/06/2022	N Cov	WAS036
Nitrate as N	5.2	mg/l	30/06/2022	N Cov	WAS036
Sulphate as SO4	54.8	mg/l	30/06/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	4.7	mg/l	30/06/2022	N Cov	WAS052
COD (Total)	19.0	mg/l	11/07/2022	N Cov	WAS040

Certificate o	of Analysis		ANALYSED	зу				
Report Number: Laboratory Number:	COV/2336915/2022 21776013		(ALS)			ssue Sample	1 2 of	5
Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:	Enviroarm Ltd BH2 Not Specified 27 June 2022 29 June 2022 13 July 2022							
Test Desc	ription	Result	Units	Analysis Date				ethod
OC (Filtered) Cyanide, Total as CN		2.4 <0.009	mg/l mg/l	30/06/2022 30/06/2022	N N	Cov Cov		AS005 AS018

	-	
Analyst	Comments	for 21776013:

This sample has been analysed for pH, COD (Total) 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), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer. 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: A. Zunzunegui

Date: 13 July 2022

ANALYSED BY



Issue 1 Sample 3 of **5**

Report Number: Laboratory Number: Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received:

Analysis Complete:

21776014 Enviroarm Ltd BH3 **Not Specified** 27 June 2022 29 June 2022

13 July 2022

COV/2336915/2022

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0015	mg/l	09/07/2022	N Cov	WAS049
Calcium , Total as Ca	50.5	mg/l	09/07/2022	N Cov	WAS049
Chromium , Total as Cr	0.016	mg/l	09/07/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	09/07/2022	N Cov	WAS049
Iron , Total as Fe	1.94	mg/l	09/07/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	09/07/2022	N Cov	WAS049
Magnesium, Total as Mg	14.6	mg/l	09/07/2022	N Cov	WAS049
Manganese , Total as Mn	1010	ug/l	09/07/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	06/07/2022	N Cov	WAS013
Nickel , Total as Ni	85.6	ug/l	09/07/2022	N Cov	WAS049
Potassium , Total as K	6.69	mg/l	09/07/2022	N Cov	WAS049
Sodium , Total as Na	10.1	mg/l	09/07/2022	N Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	09/07/2022	N Cov	WAS049
рН	5.6	pH units	01/07/2022	N Cov	WAS039
Conductivity- Electrical 20C	426	uS/cm	05/07/2022	N Cov	WAS039
Alkalinity as CaCO3	8.0	mg/l	01/07/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.09	mg/l	30/06/2022	N Cov	WAS067
Chloride as Cl	26.3	mg/l	30/06/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	30/06/2022	N Cov	WAS036
Nitrate as N	4.6	mg/l	30/06/2022	N Cov	WAS036
Sulphate as SO4	154	mg/l	30/06/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	9.0	mg/l	30/06/2022	N Cov	WAS052
COD (Total)	40.0	mg/l	11/07/2022	N Cov	WAS040

Certificate o	of Analysis		ANALYSED	ВҮ			
Report Number: Laboratory Number:	COV/2336915/2022 21776014		ALS			lssue Sample	1 3 of 5
Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:	Enviroarm Ltd BH3 Not Specified 27 June 2022 29 June 2022 13 July 2022						
Test Desc	ription	Result	Units	Analysis Date	Accre	ditation	Metho
FOC (Filtered)		1.3	mg/l	30/06/2022	N	Cov	WAS00
Cyanide, Total as CN		<0.009	mg/l	30/06/2022	N	Cov	WAS01

Analyst Comments for 21776014:

This sample has been analysed for pH, COD (Total) 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), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG),

F = Data supplied by customer. 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: A. Zunzunegui

Date: 13 July 2022

ANALYSED BY



Issue

Sample

1

4

of 5

Report Number: Laboratory Number: Sample Source: Sample Point Description:

Sample Description: Sample Matrix:

Sample Date/Time:

Sample Received: Analysis Complete:

Nitrate as N

COD (Total)

Sulphate as SO4

Dissolved Oxygen, Fixed

Enviroarm Ltd BH4 **Not Specified** 27 June 2022 29 June 2022 13 July 2022

21776015

COV/2336915/2022

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0011	mg/l	09/07/2022	N Cov	WAS049
Calcium , Total as Ca	24.9	mg/l	09/07/2022	N Cov	WAS049
Chromium , Total as Cr	0.013	mg/l	09/07/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	09/07/2022	N Cov	WAS049
Iron, Total as Fe	3.39	mg/l	09/07/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	09/07/2022	N Cov	WAS049
Magnesium, Total as Mg	7.4	mg/l	09/07/2022	N Cov	WAS049
Manganese , Total as Mn	320	ug/l	09/07/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	06/07/2022	N Cov	WAS013
Nickel , Total as Ni	62.8	ug/l	09/07/2022	N Cov	WAS049
Potassium , Total as K	4.66	mg/l	09/07/2022	N Cov	WAS049
Sodium , Total as Na	8.04	mg/l	09/07/2022	N Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	09/07/2022	N Cov	WAS049
рН	5.7	pH units	01/07/2022	N Cov	WAS039
Conductivity- Electrical 20C	218	uS/cm	05/07/2022	N Cov	WAS039
Alkalinity as CaCO3	8.6	mg/l	01/07/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	30/06/2022	N Cov	WAS067
Chloride as Cl	13.1	mg/l	30/06/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	30/06/2022	N Cov	WAS036

ALS Environmental Ltd

7.4

51.0

8.4

41.0

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30/06/2022

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11/07/2022

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WAS036 WAS036

WAS052

WAS040

Certificate of Analysis			ANALYSED B	Υ		
			ALS			
Report Number:	COV/2336915/2022				Issue	1
Laboratory Number: Sample Source: Sample Point Descriptio	21776015 Enviroarm Ltd n:				Sample	4 of 5
Sample Description:	BH4					
Sample Matrix:	Not Specified					
Sample Date/Time:	27 June 2022					
Sample Received:	29 June 2022					
Analysis Complete:	13 July 2022					
Test Des	scription	Result	Units	Analysis Date	Accreditation	Method
OC (Filtered)		11	ma/l	20/06/2022	NL Cov	W/A S005

Test Description	Result	Units	Analysis Date	Accre	Method	
TOC (Filtered)	1.1	mg/l	30/06/2022	Ν	Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	30/06/2022	N	Cov	WAS018

Analyst Comments for 21776015:

This sample has been analysed for pH, COD (Total) outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}Sample filtered through 0.45um filter prior to Cyanide analysis.{*/}

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), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer. 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: A. Zunzunegui Date: 13 July 2022

ANALYSED BY



Issue

Sample

1

5

of **5**

Report Number: Laboratory Number: Sample Source:

Sample Description: Sample Matrix:

Sample Date/Time:

Sample Received: Analysis Complete:

Sample Point Description:

Enviroarm Ltd BH5 Not Specified 27 June 2022 29 June 2022 13 July 2022

21776016

COV/2336915/2022

Test Description	Result	Units	Analysis Date	Accreditation	n Method
Cadmium , Total as Cd	<0.0006	mg/l	09/07/2022	N Cov	WAS049
Calcium , Total as Ca	23.0	mg/l	09/07/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	09/07/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	09/07/2022	N Cov	WAS049
Iron , Total as Fe	0.44	mg/l	09/07/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	09/07/2022	N Cov	WAS049
Magnesium, Total as Mg	5.6	mg/l	09/07/2022	N Cov	WAS049
Manganese , Total as Mn	56.1	ug/l	09/07/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	06/07/2022	N Cov	WAS013
Nickel , Total as Ni	5.18	ug/l	09/07/2022	N Cov	WAS049
Potassium , Total as K	5.90	mg/l	09/07/2022	N Cov	WAS049
Sodium , Total as Na	30.8	mg/l	09/07/2022	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	09/07/2022	N Cov	WAS049
рН	6.0	pH units	01/07/2022	N Cov	WAS039
Conductivity- Electrical 20C	305	uS/cm	05/07/2022	N Cov	WAS039
Alkalinity as CaCO3	13.2	mg/l	01/07/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	30/06/2022	N Cov	WAS067
Chloride as Cl	34.2	mg/l	30/06/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	30/06/2022	N Cov	WAS036
Nitrate as N	8.6	mg/l	30/06/2022	N Cov	WAS036
Sulphate as SO4	55.2	mg/l	30/06/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	7.7	mg/l	30/06/2022	N Cov	WAS052
COD (Total)	14.0	mg/l	11/07/2022	N Cov	WAS040

ALS Environmental Ltd

Certificate o		ANALYSED BY						
Report Number: Laboratory Number:	COV/2336915/2022 21776016		ALS			sue ample	1 5 of	5
Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:	Enviroarm Ltd BH5 Not Specified 27 June 2022 29 June 2022 13 July 2022							
Test Desc	ription	Result	Units	Analysis Date	Accrec	litation	Me	thod
FOC (Filtered)		0.7	mg/l	30/06/2022	Ν	Cov	WA	S005
Cyanide, Total as CN		<0.009	mg/l	30/06/2022	Ν	Cov	WA	S018

Analyst Comments for 21776016:

This sample has been analysed for pH, COD (Total) 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), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG),

F = Data supplied by customer. 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: A. Zunzunegui Date: 13 July 2022

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