

ALS Environmental Ltd Torrington Avenue Coventry CV4 9GU

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31 May 2022

## Test Report: COV/2317912/2022

Dear Mr Morris

Mr Morris Enviroarm Ltd

597 Walsall Road

Walsall WS6 6AE Staffordshire

Great Wyrley

Analysis of your sample(s) received on 19 May 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:

R. Stocks

Title:

Inorganic Team Leader







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 Summ	ary		А	NALYSED BY
Mr Andy Morris Enviroarm Ltd 597 Walsall Road Great Wyrley Walsall Staffordshire WS6 6AE				ALS)
Date of Issue: <b>31 May</b> Report Number:	COV/2317912	/2022	lssue 1	This issue replaces all previous issues
Job Description: Job Location:	Water Analysis Chadwich Lane			
Number of Samples	5		Job Received:	19 May 2022
included in this report				
included in this report Number of Test Resul included in this report			Analysis Commenced:	20 May 2022

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



Issue 1 Sample 1 of 5

Report Number: COV/2317912/2022 Laboratory Number: 21649956 Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:

Enviroarm Ltd BH1 **Not Specified** 17 May 2022 19 May 2022 31 May 2022

Test Description	Result	Units	Analysis Date	Accred	ditation	Method
Cadmium , Total as Cd	<0.0006	mg/l	24/05/2022	N	Cov	WAS049
Calcium , Total as Ca	32.0	mg/l	24/05/2022	N	Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	24/05/2022	N	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	24/05/2022	N	Cov	WAS049
Iron , Total as Fe	1.21	mg/l	24/05/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	24/05/2022	N	Cov	WAS049
Magnesium, Total as Mg	11.4	mg/l	24/05/2022	N	Cov	WAS049
Manganese , Total as Mn	81.6	ug/l	24/05/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	25/05/2022	N	Cov	WAS013
Nickel, Total as Ni	0.018	mg/l	24/05/2022	N	Cov	WAS049
Potassium , Total as K	7.54	mg/l	24/05/2022	N	Cov	WAS049
Sodium , Total as Na	12.4	mg/l	25/05/2022	N	Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	24/05/2022	N	Cov	WAS049
рН	6.7	pH units	21/05/2022	N	Cov	WAS039
Conductivity- Electrical 20C	328	uS/cm	21/05/2022	N	Cov	WAS039
Alkalinity as CaCO3	73.4	mg/l	21/05/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/05/2022	N	Cov	WAS067
Chloride as Cl	23.5	mg/l	20/05/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/05/2022	N	Cov	WAS036
Nitrate as N	4.7	mg/l	20/05/2022	N	Cov	WAS036
Sulphate as SO4	55.3	mg/l	20/05/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	4.0	mg/l	20/05/2022	N	Cov	WAS052
COD (Total)	<11.0	mg/l	31/05/2022	N	Cov	WAS040

Certificate o	of Analysis		ANALYSED				
Report Number: Laboratory Number:	COV/2317912/2022 21649956					lssue 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 17 May 2022 19 May 2022 31 May 2022						
Test Desc	ription	Result	Units	Analysis Date	Accre	ditation	Method
TOC (Filtered)		2.8	mg/l	20/05/2022	N	Cov	WAS005
Cyanide, Total as CN		<0.009	mg/l	24/05/2022	N	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.

Signed:

Name: **R. Stocks**  Date: 31 May 2022

ANALYSED BY



Issue 1 Sample 2 of **5** 

Report Number: COV/2317912/2022 Laboratory Number: 21649957 Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete: 31 May 2022

Enviroarm Ltd BH2 **Not Specified** 17 May 2022 19 May 2022

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0018	mg/l	24/05/2022	N Cov	WAS049
Calcium , Total as Ca	31.1	mg/l	24/05/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	24/05/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	24/05/2022	N Cov	WAS049
Iron , Total as Fe	0.52	mg/l	24/05/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	24/05/2022	N Cov	WAS049
Magnesium, Total as Mg	16.7	mg/l	24/05/2022	N Cov	WAS049
Manganese , Total as Mn	104	ug/l	24/05/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	25/05/2022	N Cov	WAS013
Nickel, Total as Ni	0.041	mg/l	24/05/2022	N Cov	WAS049
Potassium , Total as K	3.06	mg/l	24/05/2022	N Cov	WAS049
Sodium , Total as Na	10.1	mg/l	25/05/2022	N Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	24/05/2022	N Cov	WAS049
рН	5.9	pH units	21/05/2022	N Cov	WAS039
Conductivity- Electrical 20C	356	uS/cm	21/05/2022	N Cov	WAS039
Alkalinity as CaCO3	6.6	mg/l	25/05/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/05/2022	N Cov	WAS067
Chloride as Cl	26.8	mg/l	20/05/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	20/05/2022	N Cov	WAS036
Nitrate as N	17.9	mg/l	20/05/2022	N Cov	WAS036
Sulphate as SO4	73.7	mg/l	20/05/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	6.1	mg/l	20/05/2022	N Cov	WAS052
COD (Total)	20.0	mg/l	31/05/2022	N Cov	WAS040
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ALS Environmental Ltd

COV/2317912/2022 21649957						1 2	of <b>5</b>
Enviroarm Ltd 3H2 lot Specified 7 May 2022							
9 May 2022 1 May 2022							
otion	Result		-	Accre			Method
	-	-					WAS005 WAS018
	1649957 Inviroarm Ltd 8H2 Iot Specified 7 May 2022 9 May 2022 1 May 2022	COV/2317912/2022 1649957 Enviroarm Ltd BH2 Iot Specified 7 May 2022 9 May 2022 1 May 2022	COV/2317912/2022 1649957 Enviroarm Ltd BH2 Iot Specified 7 May 2022 9 May 2022 1 May 2022 1 May 2022 1 May 2022 1 May 2022	1649957 Enviroarm Ltd BH2 Not Specified 7 May 2022 9 May 2022 1 May 2022 1 May 2022 1 May 2022	COV/2317912/2022 I   1649957 S   Enviroarm Ltd S   BH2 Specified   7 May 2022 9 May 2022   9 May 2022 1 May 2022   1 May 2022 1 May 2022   1 May 2022 1.8   mg/l 20/05/2022 N	COV/2317912/2022 Issue   1649957 Sample   inviroarm Ltd Sample   BH2 Specified   7 May 2022 May 2022   9 May 2022 May 2022   1 May 2022 N Cov	SOV/2317912/2022 Issue 1   1649957 Sample 2   Inviroarm Ltd SH2 Specified   7 May 2022 9 May 2022 1   9 May 2022 1 May 2022   1 May 2022 1 State   1 May 2022 1 Cov   1 May 2022 1.8 mg/l 20/05/2022 N Cov

Cyanide, Total as CN	
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Analyst Comments for 21649957:

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: **R. Stocks**  Date: 31 May 2022

ANALYSED BY



Issue 1 Sample 3 of **5** 

Report Number: COV/2317912/2022 Laboratory Number: 21649958 Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:

Enviroarm Ltd BH3 **Not Specified** 17 May 2022 19 May 2022 31 May 2022

Test Description	Result	Units	Analysis Date	Accred	ditation	Method
Cadmium , Total as Cd	0.0011	mg/l	27/05/2022	N	Cov	WAS049
Calcium , Total as Ca	29.4	mg/l	27/05/2022	N	Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	27/05/2022	N	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	27/05/2022	N	Cov	WAS049
Iron , Total as Fe	0.66	mg/l	27/05/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	27/05/2022	N	Cov	WAS049
Magnesium, Total as Mg	16.0	mg/l	27/05/2022	N	Cov	WAS049
Manganese , Total as Mn	107	ug/l	27/05/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	25/05/2022	N	Cov	WAS013
Nickel, Total as Ni	0.038	mg/l	27/05/2022	N	Cov	WAS049
Potassium , Total as K	3.07	mg/l	27/05/2022	N	Cov	WAS049
Sodium , Total as Na	9.57	mg/l	30/05/2022	N	Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	27/05/2022	N	Cov	WAS049
рН	5.6	pH units	21/05/2022	N	Cov	WAS039
Conductivity- Electrical 20C	370	uS/cm	21/05/2022	N	Cov	WAS039
Alkalinity as CaCO3	6.4	mg/l	25/05/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/05/2022	N	Cov	WAS067
Chloride as Cl	28.4	mg/l	20/05/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/05/2022	N	Cov	WAS036
Nitrate as N	18.5	mg/l	20/05/2022	N	Cov	WAS036
Sulphate as SO4	155.0	mg/l	20/05/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	5.5	mg/l	20/05/2022	N	Cov	WAS052
COD (Total)	12.0	mg/l	31/05/2022	N	Cov	WAS040

Certificate o	of Analysis		ANALYSED				
Report Number: Laboratory Number:	COV/2317912/2022 21649958				lssu Sarr	-	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 17 May 2022 19 May 2022 31 May 2022						
Test Desc	ription	Result	Units	Analysis Date	Accredit	ation	Method
TOC (Filtered)		1.9	mg/l	20/05/2022	N C	Cov	WAS005
Cyanide, Total as CN		<0.009	mg/l	24/05/2022	N C	Cov	WAS018

Analyst Comments for 21649958:

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: **R. Stocks**  Date: 31 May 2022

ANALYSED BY



Issue 1 Sample 4 of **5** 

Report Number: COV/2317912/2022 Laboratory Number: 21649959 Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete: 31 May 2022

Enviroarm Ltd BH4 **Not Specified** 17 May 2022 19 May 2022

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0007	mg/l	27/05/2022	N Cov	WAS049
Calcium , Total as Ca	21.3	mg/l	27/05/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	27/05/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	27/05/2022	N Cov	WAS049
Iron , Total as Fe	0.95	mg/l	27/05/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	27/05/2022	N Cov	WAS049
Magnesium, Total as Mg	5.9	mg/l	27/05/2022	N Cov	WAS049
Manganese , Total as Mn	91.7	ug/l	27/05/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	25/05/2022	N Cov	WAS013
Nickel, Total as Ni	0.013	mg/l	27/05/2022	N Cov	WAS049
Potassium , Total as K	3.63	mg/l	27/05/2022	N Cov	WAS049
Sodium , Total as Na	7.17	mg/l	30/05/2022	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	27/05/2022	N Cov	WAS049
рН	5.7	pH units	21/05/2022	N Cov	WAS039
Conductivity- Electrical 20C	214	uS/cm	21/05/2022	N Cov	WAS039
Alkalinity as CaCO3	8.4	mg/l	25/05/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/05/2022	N Cov	WAS067
Chloride as Cl	13.5	mg/l	20/05/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	20/05/2022	N Cov	WAS036
Nitrate as N	7.2	mg/l	20/05/2022	N Cov	WAS036
Sulphate as SO4	52.7	mg/l	20/05/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	6.0	mg/l	20/05/2022	N Cov	WAS052
COD (Total)	<11.0	mg/l	23/05/2022	N Cov	WAS040

ALS Environmental Ltd

Certificate o	of Analysis		ANALYSED					
Report Number: Laboratory Number:	COV/2317912/2022 21649959					ssue Sample	1 4	of <b>5</b>
Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:	Enviroarm Ltd BH4 Not Specified 17 May 2022 19 May 2022 31 May 2022							
Test Desc TOC (Filtered)	ription	Result	Units	Analysis Date 20/05/2022	Accre	ditation		Method WAS005
Cyanide, Total as CN		<0.009	mg/l mg/l	20/05/2022 25/05/2022	N	Cov		WAS005 WAS018

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Analyst Comments for 21649959:

This sample has been analysed for pH 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: **R. Stocks**  Date: 31 May 2022

ANALYSED BY



Issue 1 Sample 5 of **5** 

Report Number: COV/2317912/2022 Laboratory Number: 21649960 Sample Source: Sample Point Description: Sample Description: Sample Matrix: Sample Date/Time: Sample Received: Analysis Complete:

Enviroarm Ltd BH5 **Not Specified** 18 May 2022 19 May 2022 31 May 2022

Test Description	Result	Units	Analysis Date	Accre	ditation	Method
Cadmium , Total as Cd	<0.0006	mg/l	27/05/2022	N	Cov	WAS049
Calcium , Total as Ca	21.2	mg/l	27/05/2022	N	Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	27/05/2022	N	Cov	WAS049
Copper, Total as Cu	0.023	mg/l	27/05/2022	N	Cov	WAS049
Iron , Total as Fe	1.33	mg/l	27/05/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	27/05/2022	N	Cov	WAS049
Magnesium, Total as Mg	5.2	mg/l	27/05/2022	N	Cov	WAS049
Manganese , Total as Mn	113	ug/l	27/05/2022	N	Cov	WAS049
Mercury, Total as Hg	0.00001	mg/l	25/05/2022	N	Cov	WAS013
Nickel, Total as Ni	0.005	mg/l	27/05/2022	N	Cov	WAS049
Potassium , Total as K	5.73	mg/l	27/05/2022	N	Cov	WAS049
Sodium , Total as Na	26.9	mg/l	27/05/2022	N	Cov	WAS049
Zinc, Total as Zn	0.02	mg/l	27/05/2022	N	Cov	WAS049
рН	5.8	pH units	20/05/2022	N	Cov	WAS039
Conductivity- Electrical 20C	313	uS/cm	20/05/2022	N	Cov	WAS039
Alkalinity as CaCO3	12.8	mg/l	25/05/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/05/2022	N	Cov	WAS067
Chloride as Cl	36.5	mg/l	20/05/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/05/2022	N	Cov	WAS036
Nitrate as N	8.6	mg/l	20/05/2022	N	Cov	WAS036
Sulphate as SO4	58.8	mg/l	20/05/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	5.3	mg/l	20/05/2022	N	Cov	WAS052
COD (Total)	214	mg/l	31/05/2022	N	Cov	WAS040

Certificate o	of Analysis		ANALYSED				
Report Number: Laboratory Number:	COV/2317912/2022 21649960			3)	Issue Sampl	1 e 5	of <b>5</b>
Sample Source: Sample Point Description:	Enviroarm Ltd						
Sample Description: Sample Matrix:	BH5 Not Specified						
Sample Date/Time:	18 May 2022						
Sample Received:	19 May 2022						
Analysis Complete:	31 May 2022						
Test Desc	ription	Result	Units	Analysis Date			Method
OC (Filtered)		1.4	mg/l	20/05/2022	Ν Οον	'	WAS005
vanide. Total as CN	~0.009	ma/l	24/05/2022		,	W/AS018	

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	1.4	mg/l	20/05/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	24/05/2022	N Cov	WAS018

Analyst Comments for 21649960:

This sample has been analysed for 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: R. Stocks Date: 31 May 2022

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 Intentionally Left Blank