

ALS Environmental Ltd
Torrington Avenue
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Mr Jenkins
Rhondda Cynon Taf County
Borough Council
Sardis House,
Sardis Road,
Pontypridd CF37 1DU

19 October 2017

Test Report: COV/1443735/2017

Dear Mr Jenkins

Analysis of your sample(s) submitted on 28 September 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. Horobin

Title: Organic Operations Manager



Report Summary

Mr Ieuan Jenkins
Rhondda Cynon Taf County Borough
Council
Sardis House,
Sardis Road,
Pontypridd
CF37 1DU



Date of Issue: **19 October 2017**

Report Number: **COV/1443735/2017**

Issue **1**

This issue replaces all previous issues

Number of Samples
included in this report: **12**
Number of Test Results
included in this report: **384**

Site Name: **Rhondda**
Job Received: **28 September 2017**
Analysis Commenced: **29 September 2017**
Order No: **307935**

Signed:

A I Horobin

Name: **A. Horobin**

Date: **19 October 2017**

Title: **Organic Operations Manager**

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/1443735/2017

Issue 1

Site Name: Rhondda



					Ground Water																			
					16449318	16449319	16449320	16449321	16449322	16449323	16449324	16449325	16449326	16449327										
					GW1	GW3	GW4	GW6	GW8	GW9	GW10	GW11	GW12	GW13										
Group	Determinand	Unit	Method / Analysis Site		25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017									
Metals	Sulphate as SO4	g/l	WAS036	Cov	N	0.0521	N	0.0092	N	0.0071	N	0.1775	N	0.0412	N	0.0182	N	0.0628	N	0.0189	N	0.0082	N	<0.0044
	Iron, Filtered as Fe	ug/l	WAS049	Cov	Y	<230	Y	<230	Y	<230	Y	<230	Y	<230	Y	<230	Y	<230	Y	<230	Y	<230	Y	<230
	Iron , Total as Fe	mg/l	WAS049	Cov	Y	7.28	Y	3.72	Y	0.56	Y	102	Y	42.7	Y	375	Y	93.3	Y	6.88	Y	17.5	Y	34.1
Inorganics	pH	pH units	WAS039	Cov	Y	6.6	Y	7.5	Y	6.8	Y	6.3	Y	7.8	Y	6.7	Y	7.7	Y	6.8	Y	6.8	Y	8.0
	Conductivity- Electrical 20C	uS/cm	WAS039	Cov	Y	330	Y	207	Y	135	Y	502	Y	871	Y	147	Y	909	Y	147	Y	175	Y	332
	Ammoniacal Nitrogen as N (LL)	mg/l	WAS067	Cov	Y	<0.06	Y	<0.06	Y	<0.06	Y	0.13	Y	<0.06	Y	<0.06	Y	<0.06	Y	<0.06	Y	<0.06	Y	<0.06
Chlor. Solvents	Cyanide, Free as CN	mg/l	WAS018	Cov	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008	Y	<0.008
	Phenols Mono (Phenol Index)	mg/l	WAS019	Cov	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10
	Benzene	ug/l	GEO56	Cov	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10
	Ethyl Benzene	ug/l	GEO56	Cov	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10
	TPH	EH >C6 - C40	ug/l	GEO35	Cov	N	<10	N	<10	N	<10	N	14	N	<10	N	<10	N	<40	N	<10	N	<10	N
PAH	Acenaphthene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Acenaphthylene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Anthracene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Benzo (a) anthracene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Benzo (g,h,i) perylene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Benzo (a) pyrene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Benzo (b) fluoranthene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Benzo (k) fluoranthene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Chrysene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Dibenz (a,h) anthracene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Fluoranthene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Fluorene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Indeno (1,2,3) cd pyrene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	Naphthalene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04

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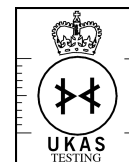
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Certificate of Analysis

Report Number: **COV/1443735/2017**

Issue **1**

Site Name: **Rhondda**



1314
0897
4409



Group					Ground Water															
					16449318	16449319	16449320	16449321	16449322	16449323	16449324	16449325	16449326	16449327						
					GW1	GW3	GW4	GW6	GW8	GW9	GW10	GW11	GW12	GW13						
Determinand	Unit	Method / Analysis Site			25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017	25/09/2017					
PAH	Phenanthrene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	0.065
	Pyrene	ug/l	GEO19	Cov	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.01	Y	<0.01	Y	<0.04	Y	<0.01	Y	<0.04
	PAH, Total	ug/l	GEO19	Cov	N	<0.01	N	<0.04	N	<0.01	N	<0.01	N	<0.01	N	<0.04	N	<0.01	N	0.065
Other	Toluene	ug/l	GEO56	Cov	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10
	m&p Xylene	ug/l	GEO56	Cov	Y	<0.20	Y	<0.20	Y	<0.20	Y	<0.20	Y	<0.20	Y	<0.20	Y	<0.20	Y	<0.20
	o-Xylene	ug/l	GEO56	Cov	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10	Y	<0.10
	Total Xylenes	ug/l	GEO56	Cov	N	<0.20	N	<0.20	N	<0.20	N	<0.20	N	<0.20	N	<0.20	N	<0.20	N	<0.20

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Certificate of Analysis

Report Number: **COV/1443735/2017**

Issue **1**

Site Name: **Rhondda**



Group	Determinand	Unit	Method / Analysis Site	Ground Water			
				16449328	16449329		
				GW15	GW17		
				25/09/2017	25/09/2017		
	Sulphate as SO4	g/l	WAS036	Cov	N	<0.0044	N 0.0162
Metals	Iron, Filtered as Fe	ug/l	WAS049	Cov	Y	<230	Y <230
	Iron , Total as Fe	mg/l	WAS049	Cov	Y	845	Y 17.0
Inorganics	pH	pH units	WAS039	Cov	Y	6.7	Y 6.6
	Conductivity- Electrical 20C	uS/cm	WAS039	Cov	Y	322	Y 178
	Ammoniacal Nitrogen as N (LL)	mg/l	WAS067	Cov	Y	<0.06	Y <0.06
	Cyanide, Free as CN	mg/l	WAS018	Cov	Y	<0.008	Y <0.008
	Phenols Mono (Phenol Index)	mg/l	WAS019	Cov	Y	<0.10	Y <0.10
Chlor. Solvents	Benzene	ug/l	GEO56	Cov	Y	<0.10	Y <0.10
	Ethyl Benzene	ug/l	GEO56	Cov	Y	<0.10	Y <0.10
TPH	EH >C6 - C40	ug/l	GEO35	Cov	N	<40	N <10
PAH	Acenaphthene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Acenaphthylene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Anthracene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Benzo (a) anthracene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Benzo (g,h,i) perylene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Benzo (a) pyrene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Benzo (b) fluoranthene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Benzo (k) fluoranthene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Chrysene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Dibenz (a,h) anthracene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Fluoranthene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Fluorene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Indeno (1,2,3) cd pyrene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10
	Naphthalene	ug/l	GEO19	Cov	Y	<0.04	Y <0.10

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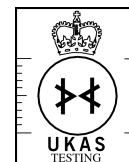
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Report Number: **COV/1443735/2017**

Issue **1**

Site Name: **Rhondda**



1314
0897
4409



					Ground Water	
					16449328 GW15 25/09/2017	16449329 GW17 25/09/2017
Group	Determinand	Unit	Method / Analysis Site			
PAH	Phenanthrene	ug/l	GEO19	Cov	Y <0.04	Y 0.111
	Pyrene	ug/l	GEO19	Cov	Y <0.04	Y <0.10
	PAH, Total	ug/l	GEO19	Cov	N <0.04	N 0.111
Other	Toluene	ug/l	GEO56	Cov	Y <0.10	Y <0.10
	m&p Xylene	ug/l	GEO56	Cov	Y <0.20	Y <0.20
	o-Xylene	ug/l	GEO56	Cov	Y <0.10	Y <0.10
	Total Xylenes	ug/l	GEO56	Cov	N <0.20	N <0.20

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **19 October 2017**

Title: **Organic Operations Manager**

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ANALYST COMMENTS FOR REPORT

COV/1443735/2017

Issue 1

This issue replaces all previous issues

Date of Issue: 19 October 2017

Sample No	Analyst Comments
16449318	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised.
16449319	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for PAH due to nature of sample matrix. Sub sample taken from PET bottle for PAH due to quality failure on the original sample taken from the glass container and re-analysed outside recommended stability times. It is therefore possible that the results provided could be compromised.
16449320	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised.
16449321	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised.
16449322	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for PAH due to nature of sample matrix. Sub sample taken from PET bottle for PAH due to quality failure on the original sample taken from the glass container and re-analysed outside recommended stability times. It is therefore possible that the results provided could be compromised.
16449323	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised.
16449324	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised.
16449325	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for EH and PAH analysis due to nature of sample matrix.
16449326	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised.
16449327	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for EH and PAH analysis due to nature of sample matrix.
16449328	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for EH and PAH analysis due to nature of sample matrix.
16449329	This sample has been analysed for PAH Waters method GEO19, pH, Conductivity- Electrical 20C outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for PAH due to nature of sample matrix. Sub sample taken from PET bottle for PAH due to quality failure on the original sample taken from the glass container and re-analysed outside recommended stability times. It is therefore possible that the results provided could be compromised.

Signed: 

Name: **A. Horobin**

Date: **19 October 2017**

Title: **Organic Operations Manager**

DETERMINAND COMMENTS FOR REPORT COV/1443735/2017

ISSUE 1

This issue replaces
all previous issues



Date of Issue : 19 October 2017

Sample No	Description	Determinand	Comments

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **19 October 2017**

Title: **Organic Operations Manager**