

ALS Environmental Ltd
Torrington Avenue
Coventry
CV4 9GU

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www.alsenvironmental.co.uk

Mr Beard
Magna Park Management Co. Ltd
The Estate Office
Harrier Parkway
Magna Park
Lutterworth LE17 4XT
Leicestershire

14 August 2015

Test Report: COV/1208163/2015

Dear Mr Beard

Analysis of your sample(s) submitted on 07 August 2015 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: C. Law

Title: Inorganics Operations Manager



Report Summary



**Mr Keith Beard
Magna Park Management Co. Ltd
The Estate Office
Harrier Parkway
Magna Park
Lutterworth
Leicestershire
LE17 4XT**

Date of Issue: **14 August 2015**

Report Number: **COV/1208163/2015**

Issue **1**

Job Description: Magna Park Management Co. Ltd

Job Location: Magna Park - Lutterworth

Number of Samples
included in this report **10**

Job Received: **07 August 2015**

Number of Test Results
included in this report **43**

Analysis Commenced: **08 August 2015**

Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

ALS Environmental Ltd was responsible for sampling. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

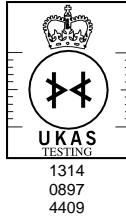
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

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/1208163/2015**

Issue **1**

Laboratory Number: **14752137**

Sample **1** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **Biofilter Effluent**

Sample Description: **Biofilter Effluent**

Sample Matrix: **Effluent**

Sample Date/Time: **07 August 2015 10:00**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Detergents, Anionic as NaLS	<0.21	mg/l	13/08/2015	N Cov	WAS020
pH	7.8	pH units	08/08/2015	N Cov	WAS039
Turbidity	9.94	NTU	11/08/2015	N Cov	WAS066
Ammoniacal Nitrogen as N	42.0	mg/l	09/08/2015	N Cov	WAS036
Nitrogen, Total Oxidised as N	14.3	mg/l	09/08/2015	N Cov	WAS036
Phosphate, Ortho as P	7.4	mg/l	09/08/2015	N Cov	WAS036
Total Suspended Solids	12.0	mg/l	11/08/2015	N Cov	WAS006
BOD + ATU (5 day)	19	mg/l	13/08/2015	N Cov	WAS001
COD (Total)	71.0	mg/l	10/08/2015	N Cov	WAS040
Nitrif Inhib Diln	2	Dil	11/08/2015	N Wak	WTOX4
Nitrif Inhib Result	<10	%	11/08/2015	N Wak	WTOX4
Nitrif Inhib EC50	<2	tu	11/08/2015	N Wak	WTOX4

Analyst Comments for 14752137:

This sample has been analysed for Detergents, Anionic as NaLS outside recommended stability times. It is therefore possible that the results provided may be compromised. {/**}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{/**}

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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: **C. Law**

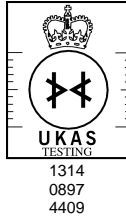
Date: **14 August 2015**

Title: **Inorganics Operations Manager**

ALS Environmental Ltd

Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752138**

Sample **2** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **Lagoon Outlet**

Sample Description: **Lagoon Outlet**

Sample Matrix: **Effluent**

Sample Date/Time: **07 August 2015 10:10**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Detergents, Anionic as NaLS	<0.21	mg/l	13/08/2015	N Cov	WAS020
pH	8.0	pH units	08/08/2015	N Cov	WAS039
Turbidity	8.44	NTU	11/08/2015	N Cov	WAS066
Ammoniacal Nitrogen as N	2.20	mg/l	09/08/2015	N Cov	WAS036
Nitrogen, Total Oxidised as N	11.0	mg/l	09/08/2015	N Cov	WAS036
Phosphate, Ortho as P	4.5	mg/l	09/08/2015	N Cov	WAS036
Total Suspended Solids	10.0	mg/l	11/08/2015	N Cov	WAS006
BOD + ATU (5 day)	6	mg/l	13/08/2015	N Cov	WAS001
COD (Total)	42.0	mg/l	10/08/2015	N Cov	WAS040
Nitrif Inhib Diln	2	Dil	11/08/2015	N Wak	WTOX4
Nitrif Inhib Result	<10	%	11/08/2015	N Wak	WTOX4
Nitrif Inhib EC50	<2	tu	11/08/2015	N Wak	WTOX4

Analyst Comments for 14752138:

This sample has been analysed for Detergents, Anionic as NaLS outside recommended stability times. It is therefore possible that the results provided may be compromised. {/**}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{/**}

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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: **C. Law**

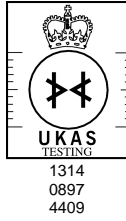
Date: **14 August 2015**

Title: **Inorganics Operations Manager**

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Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752139**

Sample **3** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **Raw Sewage**

Sample Description: **Raw Sewage**

Sample Matrix: **Effluent**

Sample Date/Time: **07 August 2015 10:05**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Detergents, Anionic as NaLS	0.39	mg/l	13/08/2015	N Cov	WAS020
pH	8.1	pH units	08/08/2015	N Cov	WAS039
Turbidity	139	NTU	11/08/2015	N Cov	WAS066
Ammoniacal Nitrogen as N	74.1	mg/l	09/08/2015	N Cov	WAS036
Nitrogen, Total Oxidised as N	<0.42	mg/l	09/08/2015	N Cov	WAS036
Phosphate, Ortho as P	7.9	mg/l	09/08/2015	N Cov	WAS036
Total Suspended Solids	234	mg/l	11/08/2015	N Cov	WAS006
BOD + ATU (5 day)	220	mg/l	13/08/2015	N Cov	WAS001
COD (Total)	620	mg/l	10/08/2015	N Cov	WAS040
Nitrif Inhib Diln	2	Dil	11/08/2015	N Wak	WTOX4
Nitrif Inhib Result	48.9	%	11/08/2015	N Wak	WTOX4
Nitrif Inhib EC50	<2	tu	11/08/2015	N Wak	WTOX4

Analyst Comments for 14752139:

This sample has been analysed for Detergents, Anionic as NaLS outside recommended stability times. It is therefore possible that the results provided may be compromised. {/**}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{/**}

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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: **C. Law**

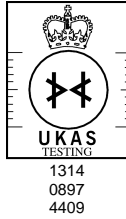
Date: **14 August 2015**

Title: **Inorganics Operations Manager**

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Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752140**

Sample **4** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **SP1**

Sample Description: **Lagoon SP1**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:15**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	2.13	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752140: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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.

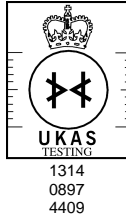
Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752141**

Sample **5** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **SP2**

Sample Description: **Lagoon SP2**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:20**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	2.04	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752141: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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.

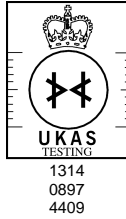
Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752142**

Sample **6** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **SP3**

Sample Description: **Lagoon SP3**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:25**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	1.75	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752142: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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.

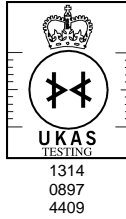
Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752143**

Sample **7** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **SP4**

Sample Description: **Lagoon SP4**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:35**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	2.30	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752143: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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.

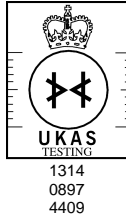
Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752144**

Sample **8** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **SP5**

Sample Description: **Lagoon SP5**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:38**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	2.37	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752144: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), 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.

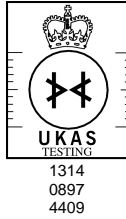
Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752145**

Sample **9** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **SP6**

Sample Description: **Lagoon SP6**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:41**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	2.29	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752145: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

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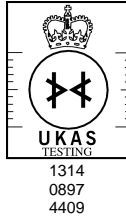
Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1208163/2015**

Issue **1**

Laboratory Number: **14752146**

Sample **10** of **10**

Sample Source: **Magna Park Management Co. Ltd**

Sample Point Description: **Stream in Bittesby Farm**

Sample Description: **Stream in Bittesby Farm**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 August 2015 10:55**

Sample Received: **07 August 2015**

Analysis Complete: **14 August 2015**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	0.56	mg/l	09/08/2015	Y Cov	WAS036

Analyst Comments for 14752146: No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Run = Runcorn(WA7 1SL), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

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

Signed:

Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

ANALYST COMMENTS FOR REPORT

COV/1208163/2015

Issue 1

Date of Issue: 14 August 2015

Sample No	Analysis Comments
14752137	This sample has been analysed for Detergents, Anionic as NaLS outside recommended stability times. It is therefore possible that the results provided may be compromised. {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}
14752138	This sample has been analysed for Detergents, Anionic as NaLS outside recommended stability times. It is therefore possible that the results provided may be compromised. {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}
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14752140	
14752141	
14752142	
14752143	
14752144	
14752145	
14752146	

Signed:



Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**

DETERMINAND COMMENTS FOR REPORT COV/1208163/2015

ISSUE 1

Date of Issue : 14 August 2015

Sample No	Description	Determinand	Comments

Signed:



Name: **C. Law**

Date: **14 August 2015**

Title: **Inorganics Operations Manager**