

Customer

David Parkinson
Eco Quest Environmental
Galway
Ireland

Certificate Of Analysis

Job Number: 21-00870
Issue Number: 1
Report Date: 23 June 2021

Site: Not Applicable
PO Number: Not Supplied
Date Samples Received: 15/06/2021

Please find attached the results for the samples received at our laboratory on 15/06/2021.

Should you have any queries regarding the report or require any further services, we would be happy to discuss your requirements. For additional information about the company please log-on to our website at the above address.

Thank you for choosing City Analysts Limited. We look forward to assisting you again.

Authorised By:



Louise Morrow

Authorised Date: 23 June 2021

Notes are not INAB accredited

Results relate only to the items tested.
Information on methods of analysis and uncertainty of measurement is available on request.
Any opinions or interpretations indicated are outside the scope of our INAB accreditation.
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Certificate Of Analysis

Customer

David Parkinson
Eco Quest Environmental
Galway
Ireland

Report Reference: 21-00870

Report Version: 1

Site: Not Applicable

Sample Description: SW1

Date of Sampling: 15/06/2021

Sample Type: Surface

Time of Sampling: 11:12

Lab Reference Number: 584671

Date Sample Received: 15/06/2021

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	22/06/2021	Ammonia as N	0.011	mg/l	-
S/S1003#	16/06/2021	BOD5	< 2	mg/l O2	-
D/D3000#	22/06/2021	Chloride	10.2	mg/l	-
S/S3228#	22/06/2021	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	22/06/2021	Nitrite as NO2	< 0.066	mg/l	-
D/D3000#	22/06/2021	Nitrate as NO3	< 8.90	mg/l	-
D/D3000#	22/06/2021	Orthophosphate as PO4	0.040	mg/l	-
S/D3246#	17/06/2021	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049#	16/06/2021	Total Suspended Solids	< 2	mg/l	-

= INAB Accredited, U = UKAS Accredited, * = Subcontracted

Note:

PV Value is the parametric value, taken from European Communities, (Drinking Water) Regulations, 2014. S.I. No. 122 of 2014 and relates only to drinking water samples.

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NAC & ATC - No abnormal change and acceptable to customers.

TVC - Total viable count

Site D = Analysed at City Analysts Dublin. Site S = Analysed at City Analysts Shannon

Certificate Of Analysis

Customer

David Parkinson
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Report Reference: 21-00870

Report Version: 1

Site: Not Applicable

Sample Description: SW2

Date of Sampling: 15/06/2021

Sample Type: Surface

Time of Sampling: 11:34

Lab Reference Number: 584672

Date Sample Received: 15/06/2021

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	22/06/2021	Ammonia as N	< 0.010	mg/l	-
S/S1003#	16/06/2021	BOD5	< 2	mg/l O2	-
D/D3000#	22/06/2021	Chloride	< 10.0	mg/l	-
S/S3228#	22/06/2021	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	22/06/2021	Nitrite as N02	< 0.066	mg/l	-
D/D3000#	22/06/2021	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	22/06/2021	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	17/06/2021	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049#	16/06/2021	Total Suspended Solids	2	mg/l	-

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Certificate Of Analysis

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Galway
Ireland

Report Reference: 21-00870

Report Version: 1

Site: Not Applicable

Sample Description: SW3

Date of Sampling: 15/06/2021

Sample Type: Surface

Time of Sampling: 09:26

Lab Reference Number: 584673

Date Sample Received: 15/06/2021

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	22/06/2021	Ammonia as N	< 0.010	mg/l	-
S/S1003#	16/06/2021	BOD5	< 2	mg/l O2	-
D/D3000#	22/06/2021	Chloride	10.3	mg/l	-
S/S3228#	22/06/2021	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	22/06/2021	Nitrite as N02	< 0.066	mg/l	-
D/D3000#	22/06/2021	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	22/06/2021	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	17/06/2021	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049#	16/06/2021	Total Suspended Solids	2	mg/l	-

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Report Reference: 21-00870

Report Version: 1

Site: Not Applicable

Sample Description: SW4

Date of Sampling: 15/06/2021

Sample Type: Surface

Time of Sampling: 09:02

Lab Reference Number: 584674

Date Sample Received: 15/06/2021

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	22/06/2021	Ammonia as N	< 0.010	mg/l	-
S/S1003#	16/06/2021	BOD5	< 2	mg/l O2	-
D/D3000#	22/06/2021	Chloride	< 10.0	mg/l	-
S/S3228#	22/06/2021	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	22/06/2021	Nitrite as N02	< 0.066	mg/l	-
D/D3000#	22/06/2021	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	22/06/2021	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	17/06/2021	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049#	16/06/2021	Total Suspended Solids	4	mg/l	-

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Report Reference: 21-00870

Report Version: 1

Site: Not Applicable

Sample Description: SW5

Date of Sampling: 15/06/2021

Sample Type: Surface

Time of Sampling: 09:48

Lab Reference Number: 584675

Date Sample Received: 15/06/2021

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	22/06/2021	Ammonia as N	< 0.010	mg/l	-
S/S1003#	16/06/2021	BOD5	< 2	mg/l O2	-
D/D3000#	22/06/2021	Chloride	10.2	mg/l	-
S/S3228#	22/06/2021	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	22/06/2021	Nitrite as N02	< 0.066	mg/l	-
D/D3000#	22/06/2021	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	22/06/2021	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	17/06/2021	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049#	16/06/2021	Total Suspended Solids	2	mg/l	-

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Note:

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Certificate Of Analysis

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Eco Quest Environmental
Galway
Ireland

Report Reference: 21-00870

Report Version: 1

Site: Not Applicable

Sample Description: SW6

Date of Sampling: 15/06/2021

Sample Type: Surface

Time of Sampling: 08:41

Lab Reference Number: 584676

Date Sample Received: 15/06/2021

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	22/06/2021	Ammonia as N	< 0.010	mg/l	-
S/S1003#	16/06/2021	BOD5	< 2	mg/l O2	-
D/D3000#	22/06/2021	Chloride	11.4	mg/l	-
S/S3228#	22/06/2021	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	22/06/2021	Nitrite as N02	< 0.066	mg/l	-
D/D3000#	22/06/2021	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	22/06/2021	Orthophosphate as P04	0.033	mg/l	-
S/D3246#	17/06/2021	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049#	16/06/2021	Total Suspended Solids	2	mg/l	-

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Customer

David Parkinson
Eco Quest Environmental
Galway
Ireland

Certificate Of Analysis

Job Number: 22-19779
Issue Number: 1
Report Date: 22 April 2022

Site: Not Applicable
PO Number: Not Supplied
Date Samples Received: 05/04/2022

Please find attached the results for the samples received at our laboratory on 05/04/2022.

Should you have any queries regarding the report or require any further services, we would be happy to discuss your requirements. For additional information about the company please log-on to our website at the above address.

Thank you for choosing City Analysts Limited. We look forward to assisting you again.

Authorised By:



Louise Morrow

Authorised Date: 22 April 2022

Notes are not INAB accredited

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Certificate Of Analysis

Customer

David Parkinson
Eco Quest Environmental
Galway
Ireland

Report Reference: 22-19779

Report Version: 1

Site: Not Applicable

Sample Description: SW1

Date of Sampling: 05/04/2022

Sample Type: Surface

Time of Sampling: 11:28

Lab Reference Number: 642059

Date Sample Received: 05/04/2022

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	07/04/2022	Ammonia as N	0.012	mg/l	-
S/S1003	07/04/2022	BOD5	< 2	mg/l O2	-
D/D3000#	07/04/2022	Chloride	13.3	mg/l	-
S/S3228#	11/04/2022	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	07/04/2022	Nitrite as N02	0.068	mg/l	-
D/D3000#	07/04/2022	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	07/04/2022	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	07/04/2022	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049	19/04/2022	Total Suspended Solids	2	mg/l	-

Comments

Deviations from the standard testing conditions observed. BOD, TSS results reported outside the specifications of the accredited method.

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Certificate Of Analysis

Customer

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Eco Quest Environmental
Galway
Ireland

Report Reference: 22-19779

Report Version: 1

Site: Not Applicable

Sample Description: SW2

Date of Sampling: 05/04/2022

Sample Type: Surface

Time of Sampling: 11:45

Lab Reference Number: 642060

Date Sample Received: 05/04/2022

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	07/04/2022	Ammonia as N	0.035	mg/l	-
S/S1003	07/04/2022	BOD5	< 2	mg/l O2	-
D/D3000#	07/04/2022	Chloride	15.1	mg/l	-
S/S3228#	11/04/2022	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	07/04/2022	Nitrite as N02	0.067	mg/l	-
D/D3000#	07/04/2022	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	07/04/2022	Orthophosphate as P04	0.043	mg/l	-
S/D3246#	07/04/2022	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049	19/04/2022	Total Suspended Solids	5	mg/l	-

Comments

Deviations from the standard testing conditions observed. BOD, TSS results reported outside the specifications of the accredited method.

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Certificate Of Analysis

Customer

David Parkinson
Eco Quest Environmental
Galway
Ireland

Report Reference: 22-19779

Report Version: 1

Site: Not Applicable

Sample Description: SW3

Date of Sampling: 05/04/2022

Sample Type: Surface

Time of Sampling: 10:09

Lab Reference Number: 642061

Date Sample Received: 05/04/2022

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	07/04/2022	Ammonia as N	0.019	mg/l	-
S/S1003	07/04/2022	BOD5	< 2	mg/l O2	-
D/D3000#	07/04/2022	Chloride	14.7	mg/l	-
S/S3228#	11/04/2022	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	07/04/2022	Nitrite as N02	0.072	mg/l	-
D/D3000#	07/04/2022	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	07/04/2022	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	07/04/2022	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049	19/04/2022	Total Suspended Solids	< 2	mg/l	-

Comments

Deviations from the standard testing conditions observed. BOD, TSS results reported outside the specifications of the accredited method..

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David Parkinson
Eco Quest Environmental
Galway
Ireland

Report Reference: 22-19779

Report Version: 1

Site: Not Applicable

Sample Description: SW4

Date of Sampling: 05/04/2022

Sample Type: Surface

Time of Sampling: 09:38

Lab Reference Number: 642062

Date Sample Received: 05/04/2022

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	07/04/2022	Ammonia as N	< 0.010	mg/l	-
S/S1003	07/04/2022	BOD5	< 2	mg/l O2	-
D/D3000#	07/04/2022	Chloride	14.6	mg/l	-
S/S3228#	11/04/2022	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	07/04/2022	Nitrite as N02	0.074	mg/l	-
D/D3000#	07/04/2022	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	07/04/2022	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	08/04/2022	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049	19/04/2022	Total Suspended Solids	< 2	mg/l	-

Comments

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Customer

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Eco Quest Environmental
Galway
Ireland

Report Reference: 22-19779

Report Version: 1

Site: Not Applicable

Sample Description: SW5

Date of Sampling: 05/04/2022

Sample Type: Surface

Time of Sampling: 10:25

Lab Reference Number: 642063

Date Sample Received: 05/04/2022

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	07/04/2022	Ammonia as N	0.023	mg/l	-
S/S1003	07/04/2022	BOD5	< 2	mg/l O2	-
D/D3000#	07/04/2022	Chloride	17.8	mg/l	-
S/S3228#	11/04/2022	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	07/04/2022	Nitrite as N02	0.069	mg/l	-
D/D3000#	07/04/2022	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	07/04/2022	Orthophosphate as P04	0.051	mg/l	-
S/D3246#	08/04/2022	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049	19/04/2022	Total Suspended Solids	4	mg/l	-

Comments

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Ireland

Report Reference: 22-19779

Report Version: 1

Site: Not Applicable

Sample Description: SW6

Date of Sampling: 05/04/2022

Sample Type: Surface

Time of Sampling: 09:16

Lab Reference Number: 642064

Date Sample Received: 05/04/2022

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
D/D3000#	07/04/2022	Ammonia as N	< 0.010	mg/l	-
S/S1003	07/04/2022	BOD5	< 2	mg/l O2	-
D/D3000#	07/04/2022	Chloride	13.9	mg/l	-
S/S3228#	11/04/2022	Total Nitrogen	< 2.50	mg/l	-
D/D3000#	07/04/2022	Nitrite as N02	< 0.066	mg/l	-
D/D3000#	07/04/2022	Nitrate as N03	< 8.90	mg/l	-
D/D3000#	07/04/2022	Orthophosphate as P04	< 0.025	mg/l	-
S/D3246#	08/04/2022	Phosphorus, Total as P	< 0.050	mg/l	-
S/S1049	19/04/2022	Total Suspended Solids	8	mg/l	-

Comments

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022550-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2023-00027658	Received on	13/06/2023
Your sample reference	SW1	Analysis started on	14/06/2023
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	13/06/2023
Time Sampled	10:14		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	14/06/23 12:28	EW013	5		13	mg/l	C6
Biochemical Oxygen Demand (BOD) [M3003]							
Biochemical oxygen demand (BOD) 5d	14/06/23 08:58	EW001	1		<1	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	20/06/23 12:36	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	21/06/23 12:15	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	21/06/23 12:15	EW175	0.15		<0.15	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	21/06/23 12:15	EW175	5		12.1	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	21/06/23 12:15	EW175	0.033		<0.033	mg/l	C6

Signed:



22/06/2023

Niamh Ward - Analytical Services Technician

NOTES

1. This Report shall not be reproduced, except in full, without the permission of the Laboratory and only relates to the items tested.
2. SPEC = Allowable limit or parametric value.
3. LOQ = Limit of Quantification or lowest value that can be reported
4. ACCRED = Indicates accreditation for the test, a blank field indicates not accredited
5. "*" indicates the test was sub-contracted
6. No date of sampling was supplied, sample stability cannot be assessed, results may be compromised.
- 7A. This result is compromised as it was tested outside of stability times.
- 7C. Sample not received in appropriate containers, therefore results may be compromised.
- 7D. This result is comprised as the sample was received by the laboratory outside of the holding time.
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Uncertainty of measurement has been calculated for all INAB accredited tests and is available upon request
9. Report is issued as per out standard T&C of sale.

Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022550-01

Page Number: Page 2 of 2

PO reference:

Ammonia as N - Gallery [M300Z]

Ammonia as N - Gallery	21/06/23 12:15	EW175	0.05	0.10	mg/l	C6
------------------------	----------------	-------	------	------	------	----

Total Phosphorus-TP [M3045]

Total Phosphorus-TP	14/06/23 11:39	EW146	0.02	0.03	mg/l	C6
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⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T



Signed:

Niamh Ward - Analytical Services Technician

22/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022463-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2023-00027659	Received on	13/06/2023
Your sample reference	SW2	Analysis started on	14/06/2023
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	13/06/2023
Time Sampled	10:40		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	14/06/23 12:27	EW013	5		15	mg/l	C6
Biochemical Oxygen Demand (BOD) [M3003]							
Biochemical oxygen demand (BOD) 5d	14/06/23 08:58	EW001	1		<1	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	20/06/23 12:36	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	20/06/23 10:51 ^{7A}	EW175	4.4		<4.4	mg/l	
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	20/06/23 10:51 ^{7A}	EW175	0.15		<0.15	mg/l	
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	20/06/23 10:51	EW175	5		11.1	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	20/06/23 10:51 ^{7A}	EW175	0.033		<0.033	mg/l	

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022463-01

Page Number: Page 2 of 2

PO reference:

Ammonia as N - Gallery [M300Z]

Ammonia as N - Gallery	20/06/23 10:51	EW175	0.05	0.10	mg/l	C6
------------------------	----------------	-------	------	------	------	----

Total Phosphorus-TP [M3045]

Total Phosphorus-TP	15/06/23 09:24	EW146	0.02	0.03	mg/l	C6
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⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T



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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022551-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2023-00027660	Received on	13/06/2023
Your sample reference	SW3	Analysis started on	14/06/2023
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	13/06/2023
Time Sampled	13:35		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	14/06/23 12:26	EW013	5		<5	mg/l	C6
Biochemical Oxygen Demand (BOD) [M3003]							
Biochemical oxygen demand (BOD) 5d	14/06/23 08:58	EW001	1		<1	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	20/06/23 12:47	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	21/06/23 12:15	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	21/06/23 12:15	EW175	0.15		<0.15	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	21/06/23 12:15	EW175	5		8.87	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	21/06/23 12:15	EW175	0.033		<0.033	mg/l	C6

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022551-01

Page Number: Page 2 of 2

PO reference:

Ammonia as N - Gallery [M300Z]

Ammonia as N - Gallery	21/06/23 12:15	EW175	0.05	0.09	mg/l	C6
------------------------	----------------	-------	------	------	------	----

Total Phosphorus-TP [M3045]

Total Phosphorus-TP	15/06/23 09:25	EW146	0.02	<0.02	mg/l	
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⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T



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Client: EcoQuest Environmental
Galway city
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IRELAND

Certificate Code: AR-23-M3-022691-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2023-00027661	Received on	13/06/2023
Your sample reference	SW4	Analysis started on	14/06/2023
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	13/06/2023
Time Sampled	12:50		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	14/06/23 12:26	EW013	5		<5	mg/l	C6
Biochemical Oxygen Demand (BOD) [M3003]							
Biochemical oxygen demand (BOD) 5d	14/06/23 08:58	EW001	1		<1	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	20/06/23 12:56	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	21/06/23 12:15	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	21/06/23 12:15	EW175	0.15		<0.15	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	21/06/23 12:15	EW175	5		9.16	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	21/06/23 12:15	EW175	0.033		<0.033	mg/l	C6

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23/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022691-01

Page Number: Page 2 of 2

PO reference:

Ammonia as N - Gallery [M300Z]

Ammonia as N - Gallery	21/06/23 12:15	EW175	0.05	0.09	mg/l	C6
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Total Phosphorus-TP [M3045]

Total Phosphorus-TP	15/06/23 09:25	EW146	0.02	<0.02	mg/l	
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⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T



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23/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022552-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2023-00027662	Received on	13/06/2023
Your sample reference	SW5	Analysis started on	14/06/2023
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	13/06/2023
Time Sampled	14:48		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	14/06/23 12:26	EW013	5		<5	mg/l	C6
Biochemical Oxygen Demand (BOD) [M3003]							
Biochemical oxygen demand (BOD) 5d	14/06/23 08:58	EW001	1		<1	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	20/06/23 12:54	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	21/06/23 12:15	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	21/06/23 12:15	EW175	0.15		<0.15	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	21/06/23 12:15	EW175	5		14.2	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	21/06/23 12:15	EW175	0.033		<0.033	mg/l	C6

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22/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022552-01

Page Number: Page 2 of 2

PO reference:

Ammonia as N - Gallery [M300Z]

Ammonia as N - Gallery	21/06/23 12:15	EW175	0.05	0.11	mg/l	C6
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Total Phosphorus-TP [M3045]

Total Phosphorus-TP	14/06/23 11:39	EW146	0.02	<0.02	mg/l	
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⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T



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Niamh Ward - Analytical Services Technician

22/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022553-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2023-00027663	Received on	13/06/2023
Your sample reference	SW6	Analysis started on	14/06/2023
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	13/06/2023
Time Sampled	12:31		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	14/06/23 12:26	EW013	5		<5	mg/l	C6
Biochemical Oxygen Demand (BOD) [M3003]							
Biochemical oxygen demand (BOD) 5d	14/06/23 08:58	EW001	1		<1	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	20/06/23 12:39	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	21/06/23 12:15	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	21/06/23 12:15	EW175	0.15		<0.15	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	21/06/23 12:15	EW175	5		14.8	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	21/06/23 12:15	EW175	0.033		<0.033	mg/l	C6

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22/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-23-M3-022553-01

Page Number: Page 2 of 2

PO reference:

Ammonia as N - Gallery [M300Z]

Ammonia as N - Gallery	21/06/23 12:15	EW175	0.05	0.13	mg/l	C6
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Total Phosphorus-TP [M3045]

Total Phosphorus-TP	14/06/23 11:39	EW146	0.02	0.03	mg/l	C6
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⁴ Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T

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22/06/2023

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Client: EcoQuest Environmental
Galway city
Ireland
Galway
IRELAND

Certificate Code: AR-24-M3-007651-01

Page Number: Page 1 of 2

PO reference:

Certificate of Analysis

Sample number	966-2024-00008821	Received on	02/04/2024
Your sample reference	SW1	Analysis started on	03/04/2024
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	02/04/2024
Time Sampled	10:10		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	03/04/24 14:01	EW013	5		<5	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	07/04/24 10:28	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	03/04/24 13:06	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	03/04/24 13:06	EW175	0.03		<0.03	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	03/04/24 13:06	EW175	5		9.83	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	03/04/24 13:06	EW175	0.033		<0.033	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	03/04/24 13:06	EW175	0.01		0.0130	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	04/04/24 09:32	EW146	0.02		<0.02	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	03/04/24 13:33	Ew001R	1		<1	mg/l	C6

Signed: _____



08/04/2024

Aoife De Barra - Organics & Instrumentation Team Lead

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Certificate of Analysis

Sample number	966-2024-00008822	Received on	02/04/2024
Your sample reference	SW2	Analysis started on	03/04/2024
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	02/04/2024
Time Sampled	10:35		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	05/04/24 11:20	EW013	5		<5	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	07/04/24 10:28	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	03/04/24 13:22	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	03/04/24 13:22	EW175	0.03		<0.03	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	03/04/24 13:22	EW175	5		9.81	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	03/04/24 13:22	EW175	0.033		<0.033	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	03/04/24 13:22	EW175	0.01		0.0120	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	04/04/24 09:32	EW146	0.02		<0.02	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	03/04/24 13:33	Ew001R	1		<1	mg/l	C6

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Certificate of Analysis

Sample number	966-2024-00008823	Received on	02/04/2024
Your sample reference	SW3	Analysis started on	03/04/2024
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	02/04/2024
Time Sampled	13:30		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	05/04/24 09:37	EW013	5		<5	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	07/04/24 10:28	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	03/04/24 10:49	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	03/04/24 10:49	EW175	0.03		0.0540	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	03/04/24 10:49	EW175	5		8.18	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	03/04/24 10:49	EW175	0.033		<0.033	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	03/04/24 10:49	EW175	0.01		0.0110	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	04/04/24 09:32	EW146	0.02		0.0200	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	03/04/24 13:33	Ew001R	1		<1	mg/l	C6

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Certificate of Analysis

Sample number	966-2024-00008824	Received on	02/04/2024
Your sample reference	SW4	Analysis started on	03/04/2024
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	02/04/2024
Time Sampled	12:42		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	03/04/24 14:01	EW013	5		<5	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	07/04/24 10:28	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	03/04/24 10:49	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	03/04/24 10:49	EW175	0.03		<0.03	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	03/04/24 10:49	EW175	5		7.53	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	03/04/24 10:49	EW175	0.033		<0.033	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	03/04/24 10:49	EW175	0.01		<0.01	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	04/04/24 09:32	EW146	0.02		<0.02	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	03/04/24 13:33	Ew001R	1		<1	mg/l	C6

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Certificate of Analysis

Sample number	966-2024-00008825	Received on	02/04/2024
Your sample reference	SW5	Analysis started on	03/04/2024
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	02/04/2024
Time Sampled	14:45		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	05/04/24 11:20	EW013	5		<5	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	07/04/24 10:28	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	03/04/24 10:49	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	03/04/24 10:49	EW175	0.03		<0.03	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	03/04/24 10:49	EW175	5		7.79	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	03/04/24 10:49	EW175	0.033		<0.033	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	03/04/24 10:49	EW175	0.01		0.0180	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	04/04/24 09:32	EW146	0.02		<0.02	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	03/04/24 13:33	Ew001R	1		<1	mg/l	C6

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Certificate of Analysis

Sample number	966-2024-00008826	Received on	02/04/2024
Your sample reference	SW6	Analysis started on	03/04/2024
Sample Matrix	Surface water		
Sample Condition on Arrival	Satisfactory	Sample Date	02/04/2024
Time Sampled	11:54		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Suspended Solids [M3002]							
Suspended Solids	05/04/24 11:20	EW013	5		<5	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	07/04/24 10:28	EW140	1		<1	mg/l	C6
Nitrate as NO3 (Calc) - Gallery [M300L]							
Nitrate as NO3 (Calc) - Gallery	03/04/24 10:49	EW175	4.4		<4.4	mg/l	C6
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery [M300M]							
Phosphate (Ortho/MRP) as PO4 (Calc) - Gallery	03/04/24 10:49	EW175	0.03		<0.03	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	03/04/24 10:49	EW175	5		10.2	mg/l	C6
Nitrite as NO2 (Calc) - Gallery [M300Y]							
Nitrite as NO2 (Calc) - Gallery	03/04/24 10:49	EW175	0.033		<0.033	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	03/04/24 10:49	EW175	0.01		0.0130	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	04/04/24 09:32	EW146	0.02		<0.02	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	03/04/24 13:33	Ew001R	1		<1	mg/l	C6

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