



ALS Life Sciences Ltd trading as ALS  
Carrigeen Business Park, Clonmel, Co. Tipperary  
Telephone: +353 (0) 52 617 8100



Report No: TCEG-820180123

Document No: EF0011

## CERTIFICATE OF ANALYSIS

<b>Client</b>	<b>Tobin Consulting Engineers</b> Block 10-4 Blanchardstown Corporate Park Dublin 15	<b>Date Submitted</b>	18/01/2023
		<b>Date Reported</b>	29/01/2023
		<b>Order Number</b>	11474
<b>For the Attention of:</b>	John Dillon		
<b>Sample Reception</b>	5 sample(s) received in good condition.		
<b>Comments</b>	N/A		

Report Authorised by:

Rosemary Thomas  
Environmental Chemistry Manager

**Conditions:**

1. Results in this report relate only to the items tested
2. Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd
3. All queries regarding this report should be addressed to the Technical Manager at the above address
4. A \* next to a method reference signifies that ALS Life Sciences Ltd is NOT INAB accredited for this method
5. Results reported as CFU/cm<sup>2</sup> are calculated based on information supplied by customer regarding area swabbed
6. SUBCON\* indicates analysis subcontracted to approved subcontractors who do not hold accreditation for this test
7. SUBCON^ indicates analysis subcontracted to approved subcontractors who hold accreditation for this test
8. Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation
9. Dil next to a method reference indicates that a dilution of the water sample was undertaken during testing
10. Statement of conformity made against the result does not take into account the uncertainty of measurement associated with the method



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## CERTIFICATE OF ANALYSIS

Date Submitted 18/01/2023  
Date Reported 29/01/2023  
Order Number 11474

Sample Type Water  
Client ID 18/1/23 SWA  
Date Tested 19/01/2023  
ALS ID 5384641

Test	Result	Unit	Method
Suspended Solids	5	mg / l	P202
pH	8.3	pH units	P233
Ammonium	<0.03	mg/l NH <sub>4</sub>	P281
Orthophosphate	<0.02	mg/l P	P281
Nitrate	<1.0	mg/l NO <sub>3</sub> N	P281
Nitrite	<0.01	mg/l NO <sub>2</sub> N	P281
Total Oxidised Nitrogen	0.79	mg/L N	P281
Conductivity @ 20°C	451	µs/cm	P284

Sample Type Water  
Client ID 18/1/23 SWB  
Date Tested 19/01/2023  
ALS ID 5384642

Test	Result	Unit	Method
Suspended Solids	5	mg / l	P202
pH	7.8	pH units	P233
Ammonium	<0.03	mg/l NH <sub>4</sub>	P281
Orthophosphate	<0.02	mg/l P	P281
Nitrate	<1.0	mg/l NO <sub>3</sub> N	P281
Nitrite	<0.01	mg/l NO <sub>2</sub> N	P281
Total Oxidised Nitrogen	0.35	mg/L N	P281
Conductivity @ 20°C	221	µs/cm	P284

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Date Submitted 18/01/2023  
Date Reported 29/01/2023  
Order Number 11474

Sample Type Water  
Client ID 18/1/23 SWC  
Date Tested 19/01/2023  
ALS ID 5384643

Test	Result	Unit	Method
Suspended Solids	21	mg / l	P202
pH	7.8	pH units	P233
Ammonium	0.06	mg/l NH <sub>4</sub>	P281
Orthophosphate	<0.02	mg/l P	P281
Nitrate	5.6	mg/l NO <sub>3</sub> N	P281
Nitrite	0.03	mg/l NO <sub>2</sub> N	P281
Total Oxidised Nitrogen	5.61	mg/L N	P281
Conductivity @ 20°C	722	µs/cm	P284

Sample Type Water  
Client ID 18/1/23 SWD  
Date Tested 19/01/2023  
ALS ID 5384644

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
pH	7.7	pH units	P233
Ammonium	<0.03	mg/l NH <sub>4</sub>	P281
Orthophosphate	<0.02	mg/l P	P281
Nitrate	<1.0	mg/l NO <sub>3</sub> N	P281
Nitrite	<0.01	mg/l NO <sub>2</sub> N	P281
Total Oxidised Nitrogen	0.65	mg/L N	P281
Conductivity @ 20°C	411	µs/cm	P284

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**Date Submitted** 18/01/2023  
**Date Reported** 29/01/2023  
**Order Number** 11474

**Sample Type** Water  
**Client ID** 18/1/23 SWE  
**Date Tested** 19/01/2023  
**ALS ID** 5384645

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
pH	7.4	pH units	P233
Ammonium	0.81	mg/l NH <sub>4</sub>	P281
Orthophosphate	<0.02	mg/l P	P281
Nitrate	3.2	mg/l NO <sub>3</sub> N	P281
Nitrite	0.04	mg/l NO <sub>2</sub> N	P281
Total Oxidised Nitrogen	3.22	mg/L N	P281
Conductivity @ 20°C	465	µs/cm	P284

Report Authorised by:

*Rosemary Thomas*