



**APPENDIX 9-2**  
**LABORATORY REPORTS**



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



Report No: HYDR-397260123

Document No: EF0011

## CERTIFICATE OF ANALYSIS

<b>Client</b>	<b>Hydro Environmental Services</b> 22 Lower Main Street Dungarvan Co. Waterford	<b>Date Submitted</b>	26/01/2023
		<b>Date Reported</b>	02/02/2023
		<b>Order Number</b>	P1585-0
<b>For the Attention of:</b>	Hydro Environmental Services		
<b>Sample Reception</b>	6 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** 26/01/2023  
**Date Reported** 02/02/2023  
**Order Number** P1585-0

**Sample Type** Water  
**Client ID** P1585-Kilgarvan SW1  
**Date Tested** 27/01/2023  
**ALS ID** 5397314

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	10.6	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	<0.25	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

**Sample Type** Water  
**Client ID** P1585-Kilgarvan SW2  
**Date Tested** 27/01/2023  
**ALS ID** 5397315

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	11.3	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	<0.25	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*



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### CERTIFICATE OF ANALYSIS

**Date Submitted** 26/01/2023  
**Date Reported** 02/02/2023  
**Order Number** P1585-0

**Sample Type** Water  
**Client ID** P1585-Kilgarvan SW3  
**Date Tested** 27/01/2023  
**ALS ID** 5397316

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	10.9	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	0.79	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

**Sample Type** Water  
**Client ID** P1585-Kilgarvan SW4  
**Date Tested** 27/01/2023  
**ALS ID** 5397318

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	11.2	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.02	mg/l P	P281
Total Oxidised Nitrogen	<0.25	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

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### CERTIFICATE OF ANALYSIS

**Date Submitted** 26/01/2023  
**Date Reported** 02/02/2023  
**Order Number** P1585-0

**Sample Type** Water  
**Client ID** P1585-Kilgarvan SW5  
**Date Tested** 27/01/2023  
**ALS ID** 5397319

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	17.8	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	<0.25	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

**Sample Type** Water  
**Client ID** P1585-Kilgarvan SW6  
**Date Tested** 27/01/2023  
**ALS ID** 5397321

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	10.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	<0.25	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*



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Report No: HYDR-412080722

Document No: EF0011

## CERTIFICATE OF ANALYSIS

<b>Client</b>	<b>Hydro Environmental Services</b> 22 Lower Main Street Dungarvan Co. Waterford	<b>Date Submitted</b>	08/07/2022
		<b>Date Reported</b>	15/07/2022
		<b>Order Number</b>	N/A
<b>For the Attention of:</b>	Hydro Environmental Services		
<b>Sample Reception</b>	6 sample(s) received in good condition.		
<b>Comments</b>	N/A		

Report Authorised by:

Rosemary Thomas  
Environmental Chemistry Manager

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**CERTIFICATE OF ANALYSIS**

**Date Submitted** 08/07/2022  
**Date Reported** 15/07/2022  
**Order Number** N/A

**Sample Type** Water  
**Client ID** P1585-SW1 07/07/2022  
**Date Tested** 08/07/2022  
**ALS ID** 5103802

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Suspended Solids	2.2	mg / l	P202*
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	0.02	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	11.0	mg/l Cl	P281
Total Oxidised Nitrogen	<0.25	mg/l TON	P281
Nitrogen (Total)	<1.0	mg/L N	P285

**Sample Type** Water  
**Client ID** P1585-SW2 07/07/2022  
**Date Tested** 08/07/2022  
**ALS ID** 5103803

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Suspended Solids	3.2	mg / l	P202*
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	10.4	mg/l Cl	P281
Total Oxidised Nitrogen	<0.25	mg/l TON	P281
Nitrogen (Total)	1.5	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*



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**CERTIFICATE OF ANALYSIS**

**Date Submitted** 08/07/2022  
**Date Reported** 15/07/2022  
**Order Number** N/A

**Sample Type** Water  
**Client ID** P1585-SW3 07/07/2022  
**Date Tested** 08/07/2022  
**ALS ID** 5103804

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Suspended Solids	0.2	mg / l	P202*
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	10.9	mg/l Cl	P281
Total Oxidised Nitrogen	<0.25	mg/l TON	P281
Nitrogen (Total)	<1.0	mg/L N	P285

**Sample Type** Water  
**Client ID** P1585-SW4 07/07/2022  
**Date Tested** 08/07/2022  
**ALS ID** 5103805

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Suspended Solids	0.8	mg / l	P202*
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	11.1	mg/l Cl	P281
Total Oxidised Nitrogen	<0.25	mg/l TON	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*





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**CERTIFICATE OF ANALYSIS**

**Date Submitted** 08/07/2022  
**Date Reported** 15/07/2022  
**Order Number** N/A

**Sample Type** Water  
**Client ID** P1585-SW5 07/07/2022  
**Date Tested** 08/07/2022  
**ALS ID** 5103806

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Suspended Solids	1.4	mg / l	P202*
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	0.02	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	13.2	mg/l Cl	P281
Total Oxidised Nitrogen	<0.25	mg/l TON	P281
Nitrogen (Total)	<1.0	mg/L N	P285

**Sample Type** Water  
**Client ID** P1585-SW6 07/07/2022  
**Date Tested** 08/07/2022  
**ALS ID** 5103807

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Suspended Solids	0.6	mg / l	P202*
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	10.2	mg/l Cl	P281
Total Oxidised Nitrogen	<0.25	mg/l TON	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*