

RECEIVED: 29/08/2024



APPENDIX 9-2
WATER QUALITY REPORTS



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



RECEIVED: 29/08/2024

Report No: HYDR-645130723

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	13/07/2023
		Date Reported	26/07/2023
		Order Number	P1598-0
For the Attention of:	Hydro Environmental Services		
Sample Reception	6 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by:

Rosemary Thomas

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/cm² 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 13/07/2023

Date Reported 26/07/2023

Order Number P1598-0

Sample Type Water
Client ID P1598- Lackereagh SW1 13.00 13/07/2023
Date Tested 13/07/2023
ALS ID 5659936

Test	Result	Unit	Method
Suspended Solids	7	mg / l	P202
Phosphorus	0.10	mg/l P	P207
BOD 5 day Total	<1.0	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	11.2	mg/l Cl	P281
Nitrate	8.1	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	1.82	mg/L N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Sample Type Water
Client ID P1598- Lackereagh SW 2 13.30 13/07/2023
Date Tested 13/07/2023
ALS ID 5659937

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1.0	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	0.54	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

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Date Submitted 13/07/2023
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Order Number P1598-0

Sample Type Water
Client ID P1598- Lackereagh SW3 14.00 13/07/2023
Date Tested 13/07/2023
ALS ID 5659938

Test	Result	Unit	Method
Suspended Solids	<10	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1.0	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	11.1	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	0.70	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Sample Type Water
Client ID P1598- LackereaghSW4 14.30 13/07/2023
Date Tested 13/07/2023
ALS ID 5659939

Test	Result	Unit	Method
Suspended Solids	9	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1.0	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	14.0	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	0.92	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

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Order Number P1598-0

Sample Type Water
Client ID P1598- Lackereagh SW5 14.45 13/07/2023
Date Tested 13/07/2023
ALS ID 5659940

Test	Result	Unit	Method
Suspended Solids	<6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1.0	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	9.1	mg/l Cl	P281
Nitrate	5.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	1.33	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Sample Type Water
Client ID P1598- Lackereagh SW6 15.00 13/07/2023
Date Tested 13/07/2023
ALS ID 5659941

Test	Result	Unit	Method
Suspended Solids	<10	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	1.0	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	16.5	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	0.92	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

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Environmental Chemistry Manager



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Report No: HYDR-879121023

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client **Hydro Environmental Services**
22 Lower Main Street
Dungarvan
Co. Waterford

Date Submitted 12/10/2023
Date Reported 30/10/2023
Order Number P1598-0

For the Attention of: Hydro Environmental Services
Sample Reception 6 sample(s) received in good condition.

Comments N/A

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

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Report No: HYDR-879121023

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 12/10/2023
Date Reported 30/10/2023
Order Number P1598-0

Sample Type Water
Client ID P1598 Lackereagh SW1 13.00 12/10/2023
Date Tested 13/10/2023
ALS ID 5798645

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.11	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Ammonia	0.02	mg/l NH3-N	P281
Chloride	11.7	mg/l Cl	P281
Nitrate	5.6	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	1.26	mg/L N	P281
Nitrogen (Total)	1.3	mg/L N	P285

Sample Type Water
Client ID P1598 Lackereagh SW2 13.30 12/10/2023
Date Tested 13/10/2023
ALS ID 5798646

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.13	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	9.6	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	0.75	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

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Order Number P1598-0

Sample Type Water
Client ID P1598 Lackereagh SW3 13.45 12/10/2023
Date Tested 13/10/2023
ALS ID 5798647

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.13	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	10.3	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	0.65	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Sample Type Water
Client ID P1598 Lackereagh SW4 14.00 12/10/2023
Date Tested 13/10/2023
ALS ID 5798648

Test	Result	Unit	Method
Suspended Solids	7	mg / l	P202
Phosphorus	0.20	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	0.80	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

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Order Number P1598-0

Sample Type Water
Client ID P1598 Lackereagh SW5 14.15 12/10/2023
Date Tested 13/10/2023
ALS ID 5798649

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.15	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	8.5	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	0.43	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Sample Type Water
Client ID P1598 Lackereagh SW5 15.00 12/10/2023
Date Tested 13/10/2023
ALS ID 5798650

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.16	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	14.3	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	0.56	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
Environmental Chemistry Manager