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Carrigeen Business Park, Clonmel, Co. Tipperary
Telephone: +353 (0) 52 617 8100



Report No: HYDR-393291122

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	29/11/2022
		Date Reported	16/12/2022
		Order Number	P1444
For the Attention of:	Hydro Environmental Services		
Sample Reception	10 sample(s) received in good condition.		
Comments	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/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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Date Submitted 29/11/2022
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Sample Type Water
Client ID Carrownagowan SW15
Date Tested 29/11/2022
ALS ID 5315653

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	<1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	17.9	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.3	mg/L N	P285

Sample Type Water
Client ID Carrownagowan SW16
Date Tested 29/11/2022
ALS ID 5315654

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	16	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	18.0	mg/l Cl	P281
Nitrate	5.2	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.7	mg/L N	P285

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Date Submitted 29/11/2022
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Sample Type Water
Client ID Carrownagowan SW17
Date Tested 29/11/2022
ALS ID 5315655

<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 with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	14.6	mg/l Cl	P281
Nitrate	9.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	2.3	mg/L N	P285

Sample Type Water
Client ID Carrownagowan SW18
Date Tested 29/11/2022
ALS ID 5315656

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	22	mg / l	P202
Phosphorus	0.22	mg/l P	P207
BOD 5 day Total with ATU	8	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	13.9	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.5	mg/L N	P285

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Date Submitted 29/11/2022
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Sample Type Water
Client ID Carrownagowan SW19
Date Tested 29/11/2022
ALS ID 5315657

<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 with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	15.3	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.7	mg/L N	P285

Sample Type Water
Client ID Carrownagowan SW20
Date Tested 29/11/2022
ALS ID 5315658

<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 with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	17.3	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.4	mg/L N	P285

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Sample Type Water
Client ID Carrownagowan SW21
Date Tested 29/11/2022
ALS ID 5315659

<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 with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	14.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Sample Type Water
Client ID Carrownagowan SW22
Date Tested 29/11/2022
ALS ID 5315660

<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 with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	18.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.04	mg/l NH3-N	P281
Nitrogen (Total)	1.5	mg/L N	P285

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Sample Type Water
Client ID Carrownagowan SW23
Date Tested 29/11/2022
ALS ID 5315661

<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 with ATU	<1	mg/l O ₂	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	15.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO ₃	P281
Nitrite	<0.05	mg/l NO ₂	P281
Ammonia	<0.02	mg/l NH ₃ -N	P281
Nitrogen (Total)	1.7	mg/L N	P285

Sample Type Water
Client ID Carrownagowan SW24
Date Tested 29/11/2022
ALS ID 5315662

<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 with ATU	3	mg/l O ₂	P280
Orthophosphate	0.04	mg/l P	P281
Chloride	20.2	mg/l Cl	P281
Nitrate	9.4	mg/l NO ₃	P281
Nitrite	0.07	mg/l NO ₂	P281
Ammonia	0.06	mg/l NH ₃ -N	P281
Nitrogen (Total)	2.4	mg/L N	P285

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