

Borrisbeg Grid Connection

Appendix 8-2 Laboratory Certs

IE002700
Borrisbeg Grid
Connection
F
18.09.2025

CERTIFICATE OF ANALYSIS



ALS Life Sciences Ltd.,
Carrigeen Business Park Clonmel Co. Tipperary E91 PF63 Ireland
Telephone: +353 (0) 52 617 8100
www.alsglobal.ie

Page 1 of 2

Hydro Environmental Services
Hydro Environmental Services
22 Lower Main Street
Dungarvan, Co. Waterford
Ireland

Certificate Number: CLN100196-1 Final
Date Reported: 16/09/2025
Date Analysis Started: 29/08/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN330519	Prod: Order No: P1619 Rcvd Dt: 28/08/2025 Start Testing: 29/08/2025 Description: SW1 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	2	mg/L O ₂	
		P202	Suspended Solids	5	mg/L	
		P281	Chloride	20.1	mg/L Cl	
		P285	Total Nitrogen	2.3	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.26	mg/L N	
		P281	Ammonia	0.03	mg/L NH ₃ -N	
		P281	Nitrate	5.8	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.02	mg/L P	
CLN330520	Prod: Order No: P1619 Rcvd Dt: 28/08/2025 Start Testing: 29/08/2025 Description: SW2 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P202	Suspended Solids	5	mg/L	
		P281	Chloride	30.0	mg/L Cl	
		P285	Total Nitrogen	2.3	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.51	mg/L N	
		P281	Ammonia	0.04	mg/L NH ₃ -N	
		P281	Nitrate	6.6	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.05	mg/L P	
CLN330521	Prod: Order No: P1619 Rcvd Dt: 28/08/2025 Start Testing: 29/08/2025 Description: SW3 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	2	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	18.5	mg/L Cl	
		P285	Total Nitrogen	2.1	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.07	mg/L N	
		P281	Ammonia	0.03	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	

Certificate approved and electronically signed on 16/09/25 14:02

By Ciara Gildea, Senior Environmental Chemistry Analyst

For and on Behalf of ALS Life Sciences Ltd



Certificate Number: CLN100196-1 Final

Page 2 of 2

Disclaimers:

The testing results in this certificate relate only to the samples described above.
Unless otherwise stated, all results are expressed on an as received basis.
Statement of conformity made against the result does not take into account the uncertainty of measurement associated to the method.
Opinions and interpretations expressed herein are outside the scope of INAB accreditation.
Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation
Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd.
No INAB logo on the certificate indicates all results reported on the certificate are not accredited.



Original Laboratory Certs



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



Report No: HYDR-375130723

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 P1619

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

Conditions:

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3. All queries regarding this report should be addressed to the Technical Manager at the above address
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Report No: HYDR-375130723

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 13/07/2023

Date Reported 26/07/2023

Order Number P1619

Sample Type Effluent
Client ID Borrisbeg SW1
Date Tested 13/07/2023
ALS ID 5659354

Test	Result	Unit	Method
Suspended Solids	27	mg / l	P202
Phosphorus	0.11	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.13	mg/l NH3-N	P281
Chloride	17.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.03	mg/l P	P281
Total Oxidised Nitrogen	0.75	mg/L N	P281
Nitrogen (Total)	2.0	mg/L N	P285

Sample Type Effluent
Client ID Borrisbeg SW2
Date Tested 13/07/2023
ALS ID 5659355

Test	Result	Unit	Method
Suspended Solids	15	mg / l	P202
Phosphorus	0.18	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.08	mg/l NH3-N	P281
Chloride	13.2	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.03	mg/l P	P281
Total Oxidised Nitrogen	0.94	mg/L N	P281
Nitrogen (Total)	2.1	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Report No: HYDR-375130723

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CERTIFICATE OF ANALYSIS

Date Submitted 13/07/2023

Date Reported 26/07/2023

Order Number P1619

Sample Type Effluent
Client ID Borrisbeg SW3
Date Tested 13/07/2023
ALS ID 5659356

Test	Result	Unit	Method
Suspended Solids	12	mg / l	P202
Phosphorus	0.10	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.21	mg/l NH3-N	P281
Chloride	25.6	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)	1.6	mg/L N	P285

Sample Type Effluent
Client ID Borrisbeg SW4
Date Tested 13/07/2023
ALS ID 5659357

Test	Result	Unit	Method
Suspended Solids	8	mg / l	P202
Phosphorus	0.12	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.05	mg/l NH3-N	P281
Chloride	15.7	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.03	mg/l P	P281
Total Oxidised Nitrogen	0.94	mg/L N	P281
Nitrogen (Total)	1.6	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Report No: HYDR-375130723

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CERTIFICATE OF ANALYSIS

Date Submitted 13/07/2023

Date Reported 26/07/2023

Order Number P1619

Sample Type Effluent
Client ID Borrisbeg SW5
Date Tested 13/07/2023
ALS ID 5659358

Test	Result	Unit	Method
Suspended Solids	16	mg / l	P202
Phosphorus	0.11	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.08	mg/l NH3-N	P281
Chloride	13.6	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.03	mg/l P	P281
Total Oxidised Nitrogen	0.86	mg/L N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Sample Type Effluent
Client ID Borrisbeg SW6
Date Tested 13/07/2023
ALS ID 5659359

Test	Result	Unit	Method
Suspended Solids	91	mg / l	P202
Phosphorus	0.18	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.08	mg/l NH3-N	P281
Chloride	14.7	mg/l Cl	P281
Nitrate	5.1	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.04	mg/l P	P281
Total Oxidised Nitrogen	1.16	mg/L N	P281
Nitrogen (Total)	2.7	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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



Report No: HYDR-837280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	28/09/2023
		Date Reported	16/10/2023
		Order Number	N/A
For the Attention of:	Hydro Environmental Services		
Sample Reception	1 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

Conditions:

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



Report No: HYDR-837280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted	28/09/2023
Date Reported	16/10/2023
Order Number	N/A

Sample Type	Water
Client ID	Borrisbeg SW1
Date Tested	29/09/2023
ALS ID	5778192

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	12	mg / l	P202
Phosphorus	0.15	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	1.1	mg/l NO3N	P281
Chloride	14.5	mg/l Cl	P281
Total Oxidised Nitrogen	1.12	mg/L N	P281
Nitrogen (Total)	1.5	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Telephone: +353 (0) 52 617 8100



Report No: HYDR-836280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	28/09/2023
		Date Reported	16/10/2023
		Order Number	N/A
For the Attention of:	Hydro Environmental Services		
Sample Reception	1 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

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Report No: HYDR-836280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted	28/09/2023
Date Reported	16/10/2023
Order Number	N/A

Sample Type	Water
Client ID	Ballyquin SW2
Date Tested	29/09/2023
ALS ID	5778191

<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	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrite	<0.01	mg/l NO2N	P281
Nitrate	<1.0	mg/l NO3N	P281
Chloride	11.2	mg/l Cl	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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Telephone: +353 (0) 52 617 8100



Report No: HYDR-839280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	28/09/2023
		Date Reported	16/10/2023
		Order Number	N/A
For the Attention of:	Hydro Environmental Services		
Sample Reception	1 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

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Report No: HYDR-839280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 28/09/2023
Date Reported 16/10/2023
Order Number N/A

Sample Type Water
Client ID Borrisbeg SW3
Date Tested 29/09/2023
ALS ID 5778194

<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
Orthophosphate	<0.02	mg/l P	P281
Ammonia	0.04	mg/l NH3-N	P281
Nitrite	0.01	mg/l NO2N	P281
Nitrate	2.5	mg/l NO3N	P281
Chloride	15.4	mg/l Cl	P281
Total Oxidised Nitrogen	2.56	mg/L N	P281
Nitrogen (Total)	2.6	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Telephone: +353 (0) 52 617 8100



Report No: HYDR-840280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	28/09/2023
		Date Reported	16/10/2023
		Order Number	N/A
For the Attention of:	Hydro Environmental Services		
Sample Reception	1 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

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Report No: HYDR-840280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted	28/09/2023
Date Reported	16/10/2023
Order Number	N/A

Sample Type	Water
Client ID	Borrisbeg SW4
Date Tested	29/09/2023
ALS ID	5778195

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	11	mg / l	P202
Phosphorus	0.15	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	1.2	mg/l NO3N	P281
Chloride	11.6	mg/l Cl	P281
Total Oxidised Nitrogen	1.25	mg/L N	P281
Nitrogen (Total)	1.3	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Telephone: +353 (0) 52 617 8100



Report No: HYDR-841280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	28/09/2023
		Date Reported	16/10/2023
		Order Number	N/A
For the Attention of:	Hydro Environmental Services		
Sample Reception	1 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

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Report No: HYDR-841280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted	28/09/2023
Date Reported	16/10/2023
Order Number	N/A

Sample Type	Water
Client ID	Borrisbeg SW5
Date Tested	29/09/2023
ALS ID	5778196

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	5	mg / l	P202
Phosphorus	0.19	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	0.04	mg/l P	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrite	0.01	mg/l NO2N	P281
Nitrate	1.1	mg/l NO3N	P281
Chloride	12.1	mg/l Cl	P281
Total Oxidised Nitrogen	1.19	mg/L N	P281
Nitrogen (Total)	1.7	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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



Report No: HYDR-842280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

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

Date Submitted 28/09/2023
Date Reported 16/10/2023
Order Number N/A

For the Attention of: Hydro Environmental Services

Sample Reception 1 sample(s) received in good condition.

Comments N/A

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

Conditions:

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Report No: HYDR-842280923

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 28/09/2023
Date Reported 16/10/2023
Order Number N/A

Sample Type Water
Client ID Borrisbeg SW6
Date Tested 29/09/2023
ALS ID 5778197

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	9	mg / l	P202
Phosphorus	0.14	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrite	0.01	mg/l NO2N	P281
Nitrate	1.3	mg/l NO3N	P281
Chloride	12.3	mg/l Cl	P281
Total Oxidised Nitrogen	1.27	mg/L N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Report Authorised by:

Rosemary Thomas