



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



RECEIVED: 03/07/2025

Report No: HYDR-909130624
Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	13/06/2024
		Date Reported	09/07/2024
		Order Number	P1657-0
For the Attention of:	Hydro Environmental Services		
Sample Reception	4 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 as received
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
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8. Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation
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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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CERTIFICATE OF ANALYSIS

Date Submitted 13/06/2024
Date Reported 09/07/2024
Order Number P1657-0

Sample Type Water
Client ID P1657 Briskalagh SW1 10:30am 13/06/2024
Date Tested 14/06/2024
ALS ID 6183221

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	11	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	11.8	mg/l Cl	P281
Nitrate	10.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	2.36	mg/L N	P281
Nitrogen (Total)	3.1	mg/L N	P285

Sample Type Water
Client ID P1657 Briskalagh SW22 10:45am 13/06/2024
Date Tested 14/06/2024
ALS ID 6183222

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	10	mg / l	P202
Phosphorus	0.23	mg/l P	P207
BOD 5 day Total	9	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	12.8	mg/l Cl	P281
Nitrate	10.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.10	mg/l P	P281
Total Oxidised Nitrogen	2.39	mg/L N	P281
Nitrogen (Total)	2.7	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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CERTIFICATE OF ANALYSIS

Date Submitted 13/06/2024
Date Reported 09/07/2024
Order Number P1657-0

Sample Type Water
Client ID P1657 Briskalagh SW3 11:15am 13/06/2024
Date Tested 14/06/2024
ALS ID 6183223

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	15	mg / l	P202
Phosphorus	0.25	mg/l P	P207
BOD 5 day Total	8	mg/l O2	P280
Ammonia	0.41	mg/l NH3-N	P281
Chloride	15.1	mg/l Cl	P281
Nitrate	9.6	mg/l NO3	P281
Nitrite	0.11	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	2.19	mg/L N	P281
Nitrogen (Total)	3.6	mg/L N	P285

Sample Type Water
Client ID P1657 Briskalagh SW4 11:30am 13/06/2024
Date Tested 14/06/2024
ALS ID 6183224

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	16.7	mg/l Cl	P281
Nitrate	16.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	3.79	mg/L N	P281
Nitrogen (Total)	3.8	mg/L N	P285

Report Authorised by:

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Report No: HYDR-795110724
Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	11/07/2024
		Date Reported	26/07/2024
		Order Number	1657-0
For the Attention of:	Hydro Environmental Services		
Sample Reception	4 sample(s) received in good condition.		
Comments	N/A		

Report Authorised by: Rosemary Thomas
Rosemary Thomas
Environmental Chemistry Manager

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Report No: HYDR-795110724

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 11/07/2024
Date Reported 26/07/2024
Order Number 1657-0

Sample Type Surface Water
Client ID P1657 Briskalagh SW1 10/07/2024 @ 09.30am
Date Tested 11/07/2024
ALS ID 6232230

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	14.5	mg/l Cl	P281
Nitrate	9.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	2.10	mg/L N	P281
Nitrogen (Total)	2.2	mg/L N	P285

Sample Type Surface Water
Client ID P1657 Briskalagh SW2 10/07/2024 @ 09.45am
Date Tested 11/07/2024
ALS ID 6232231

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	21	mg / l	P202
Phosphorus	0.36	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.04	mg/l NH3-N	P281
Chloride	26.6	mg/l Cl	P281
Nitrate	11.4	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.19	mg/l P	P281
Total Oxidised Nitrogen	2.58	mg/L N	P281
Nitrogen (Total)	3.4	mg/L N	P285

Report Authorised by:

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Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 11/07/2024
Date Reported 26/07/2024
Order Number 1657-0

Sample Type Surface Water
Client ID P1657 Briskalagh SW3 11/07/2024 @ 10.15am
Date Tested 11/07/2024
ALS ID 6232232

Test	Result	Unit	Method
Suspended Solids	<6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.05	mg/l NH3-N	P281
Chloride	16.5	mg/l Cl	P281
Nitrate	7.8	mg/l NO3	P281
Nitrite	0.06	mg/l NO2	P281
Orthophosphate	0.02	mg/l P	P281
Total Oxidised Nitrogen	1.78	mg/L N	P281
Nitrogen (Total)	2.0	mg/L N	P285

Sample Type Surface Water
Client ID P1657 Briskalagh SW4 10/07/2024 @ 11.00am
Date Tested 11/07/2024
ALS ID 6232233

Test	Result	Unit	Method
Suspended Solids	<7	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	17.6	mg/l Cl	P281
Nitrate	16.1	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	3.65	mg/L N	P281
Nitrogen (Total)	3.3	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Client: Hydro-Environmental Services
22
Lower Main Street
Dungarvan
Co. Waterford.
Waterford
IRELAND

Certificate Code: AR-24-M3-016761-01

Page Number: Page 1 of 6

PO reference:

RECEIVED: 03/01/2025

Certificate of Analysis

Sample number	966-2024-00019316	Received on	11/07/2024
Your sample reference	Briskalagh MW01	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	10:00		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Chemical Oxygen Demand (COD) [M3004]							
Chemical oxygen demand (COD)	12/07/24 14:03	EW094	8		<8	mg/l	C6
Total Dissolved Solids (TDS) [M3006]							
Total dissolved solids @ 180°C	12/07/24 10:23	EW046	15		315	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	19/07/24 09:27	EW140	1		2.21	mg/l	C6
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	11/07/24 17:55	EW175	1		9.32	mg/l	C6
Phosphate (Ortho/MRP) as P - Gallery [M300P]							
Phosphate (Ortho/MRP) as P - Gallery	11/07/24 17:55	EW175	0.01		0.0120	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	11/07/24 17:55	EW175	5		14.8	mg/l	C6
Nitrite (as N) - Gallery [M3016]							
Nitrite (as N) - Gallery	11/07/24 17:55	EW175	0.01		<0.01	mg/l	C6
Nitrate (as N) - Gallery [M301A]							
Nitrate (as N) - Gallery	11/07/24 17:55	EW175	1		2.48	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	12/07/24 11:57	EW146	0.02		<0.02	mg/l	
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	12/07/24 10:10 ^{7A}	Ew001R	1		<1	mg/l	
pH (Robotic Method) [M3051]							
pH	11/07/24 19:26 ^{7D}	EW152R	4		7.1		
Conductivity at 20°C (Robotic Method) [M3052]							

Signed: _____

Niamh Ward - Senior Laboratory Analyst

23/07/2024

NOTES

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Lower Main Street
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Waterford
IRELAND

Certificate Code: AR-24-M3-016761-01

Page Number: Page 2 of 6

PO reference:

RECEIVED: 03/01/2025

Sample number	966-2024-00019316	Received on	11/07/2024
Your sample reference	Briskalagh MW01	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	10:00		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Conductivity at 20°C	11/07/24 19:26	EW152R	5		556	µS/cm	C6
Boron - Dissolved [M3163]							
Boron (B)	15/07/24 16:58	EW188	0.21		<0.21	mg/l	C6
Cadmium - Dissolved [M3164]							
Cadmium (Cd)	15/07/24 16:58	EW188			<0.1	µg/l	C6
Copper - Dissolved [M3168]							
Copper (Cu)	15/07/24 16:58	EW188	0.003		<0.003	mg/l	C6
Iron - Dissolved [M3172]							
Iron (Fe)	15/07/24 16:58	EW188	5		<5	µg/l	C6
Lead - Dissolved [M3173]							
Lead (Pb)	15/07/24 16:58	EW188	0.51		<0.51	µg/l	C6
Magnesium - Dissolved [M3174]							
Magnesium (Mg)	15/07/24 16:58	EW188	1.11		13.7	mg/l	C6
Manganese - Dissolved [M3175]							
Manganese (Mn)	15/07/24 16:58	EW188			15.8	µg/l	C6
Nickel - Dissolved [M3178]							
Nickel (Ni)	15/07/24 16:58	EW188			<0.5	µg/l	C6
Potassium - Dissolved [M3180]							
Potassium (K)	15/07/24 16:58	EW188	0.15		1.55	mg/l	C6
Sodium - Dissolved [M3184]							
Sodium (Na)	15/07/24 16:58	EW188	1.5		9.42	mg/l	C6
Zinc - Dissolved [M3194]							
Zinc (Zn)	15/07/24 16:58	EW188	1		1.17	µg/l	C6
Ammonia (Gallery) [M3278]							
Ammonia as N	11/07/24 17:55	EW175			0.0750	mg/l	

Signed: _____



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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IRELAND

Certificate Code: AR-24-M3-016761-01

Page Number: Page 3 of 6

PO reference:

RECEIVED: 03/01/2025

Sample number	966-2024-00019316	Received on	11/07/2024
Your sample reference	Briskalagh MW01	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	10:00		

Test Code Analyte	SUB ⁵	Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
TPH 3 Band (C6-10-21-40) in water [M502B]								
TPH >C10-C21	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH >C21-C40	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH >C6-C10	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH Total >C6-C40	*	12/07/24 12:23		10		<10	µg/l	
Oils, fats and grease water (HEM) gravimetric [RZPGR]								
Oil, fat and grease (HEM)	*	11/07/24 17:38		10		<10	mg/l	JV
Coliforms [XD002]								
Coliforms	*	11/07/24 17:31				0	cfu/100 ml	
Escherichia coli, confirmed [XD005]								
Escherichia coli, confirmed	*	11/07/24 17:31				0	cfu/100 ml	
Faecal Coliforms 44°C 0 - 80 cfu/100ml [XD012]								
Faecal Coliforms 44°	*	11/07/24 17:31				0	cfu/100 ml	

4 Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T

JV: SFS-EN ISO/IEC 17025:2017 FINAS T039

Signed: _____



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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- 7B. No time of sampling was supplied, a default time of 00:00:00 will be assumed for holding time calculations unless provided. This may impact the validity of the results.
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Page Number: Page 4 of 6

PO reference:

RECEIVED: 03/01/2025

Sample number	966-2024-00019317	Received on	11/07/2024
Your sample reference	Briskalagh MW02	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	11:00		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Chemical Oxygen Demand (COD) [M3004]							
Chemical oxygen demand (COD)	12/07/24 14:03	EW094	8		<8	mg/l	C6
Total Dissolved Solids (TDS) [M3006]							
Total dissolved solids @ 180°C	12/07/24 10:23	EW046	15		356	mg/l	C6
Total Nitrogen [M3007]							
Total Nitrogen	16/07/24 17:18	EW140	1		1.54	mg/l	C6
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	11/07/24 17:55	EW175	1		7.34	mg/l	C6
Phosphate (Ortho/MRP) as P - Gallery [M300P]							
Phosphate (Ortho/MRP) as P - Gallery	11/07/24 17:55	EW175	0.01		0.0530	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	11/07/24 17:55	EW175	5		13.1	mg/l	C6
Nitrite (as N) - Gallery [M3016]							
Nitrite (as N) - Gallery	11/07/24 17:55	EW175	0.01		<0.01	mg/l	C6
Nitrate (as N) - Gallery [M301A]							
Nitrate (as N) - Gallery	11/07/24 17:55	EW175	1		1.76	mg/l	C6
Total Phosphorus-TP [M3045]							
Total Phosphorus-TP	12/07/24 11:43	EW146	0.02		0.0200	mg/l	C6
Biochemical Oxygen Demand (BOD) Robotic Method [M304E]							
Biochemical oxygen demand (BOD) 5d by Robotic Method	12/07/24 10:10	Ew001R	1		1.20	mg/l	C6
pH (Robotic Method) [M3051]							
pH	11/07/24 19:26 ^{7D}	EW152R	4		7.0		
Conductivity at 20°C (Robotic Method) [M3052]							
Conductivity at 20°C	11/07/24 19:26	EW152R	5		602	µS/cm	C6
Boron - Dissolved [M3163]							

Signed: _____



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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Waterford
IRELAND

Certificate Code: AR-24-M3-016761-01

Page Number: Page 5 of 6

PO reference:

RECEIVED: 03/01/2025

Sample number	966-2024-00019317	Received on	11/07/2024
Your sample reference	Briskalagh MW02	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	11:00		

Test Code Analyte	SUB ⁵ Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
Boron (B)	15/07/24 16:58	EW188	0.21		<0.21	mg/l	C6
Cadmium - Dissolved [M3164]							
Cadmium (Cd)	15/07/24 16:58	EW188			<0.1	µg/l	C6
Copper - Dissolved [M3168]							
Copper (Cu)	15/07/24 16:58	EW188	0.003		<0.003	mg/l	C6
Iron - Dissolved [M3172]							
Iron (Fe)	15/07/24 16:58	EW188	5		<5	µg/l	C6
Lead - Dissolved [M3173]							
Lead (Pb)	15/07/24 16:58	EW188	0.51		<0.51	µg/l	C6
Magnesium - Dissolved [M3174]							
Magnesium (Mg)	15/07/24 16:58	EW188	1.11		11.8	mg/l	C6
Manganese - Dissolved [M3175]							
Manganese (Mn)	15/07/24 16:58	EW188			5.28	µg/l	C6
Nickel - Dissolved [M3178]							
Nickel (Ni)	15/07/24 16:58	EW188			0.793	µg/l	C6
Potassium - Dissolved [M3180]							
Potassium (K)	15/07/24 16:58	EW188	0.15		1.80	mg/l	C6
Sodium - Dissolved [M3184]							
Sodium (Na)	15/07/24 16:58	EW188	1.5		8.87	mg/l	C6
Zinc - Dissolved [M3194]							
Zinc (Zn)	15/07/24 16:58	EW188	1		13.9	µg/l	C6
Ammonia (Gallery) [M3278]							
Ammonia as N	11/07/24 17:55	EW175			<0.05	mg/l	
TPH 3 Band (C6-10-21-40) in water [M502B]							
TPH >C10-C21	* 12/07/24 12:23		0.1		<0.1	µg/l	

Signed: _____



Niamh Ward - Senior Laboratory Analyst

23/07/2024

NOTES

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- SPEC = Allowable limit or parametric value.
- LOQ = Limit of Quantification or lowest value that can be reported.
- ACCRED = Indicates accreditation for the test, a blank field indicates not accredited.
- * indicates the test was sub-contracted, "D" indicates the analysis was performed in Dublin and "C" indicates the analysis performed in Cork.
- The sampling date was not communicated; this may impact the validity of the results unless provided.
- 7A. This test was conducted outside of recommended best practice holding time; this may impact the accreditation status/validity of the result. The result will still be technically sound in terms of the method and associated quality controls
- 7B. No time of sampling was supplied, a default time of 00:00:00 will be assumed for holding time calculations unless provided. This may impact the validity of the results.
- 7D. The sample was received close to or outside of the recommended best practice holding time; this may impact the accreditation status of the result.
- This notification is based on the numerical result for the test without consideration of the uncertainty of measurement of the result, unless otherwise agreed in writing. Uncertainty of measurement has been calculated for all INAB accredited tests and is available upon request.
- Report is issued as per our standard T&C of sale.

Client: Hydro-Environmental Services
22
Lower Main Street
Dungarvan
Co. Waterford.
Waterford
IRELAND

Certificate Code: AR-24-M3-016761-01

Page Number: Page 6 of 6

PO reference:

RECEIVED: 03/01/2025

Sample number	966-2024-00019317	Received on	11/07/2024
Your sample reference	Briskalagh MW02	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	11:00		

Test Code Analyte	SUB ⁵	Analysis Started	Method	LOQ ³	SPEC ²	Result	Units	ACCRED ⁴
TPH >C21-C40	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH >C6-C10	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH Total >C6-C40	*	12/07/24 12:23		10		<10	µg/l	
Oils, fats and grease water (HEM) gravimetric [RZPGR]								
Oil, fat and grease (HEM)	*	11/07/24 17:38		10		<10	mg/l	JV
Coliforms [XD002]								
Coliforms	*	11/07/24 17:31				365	cfu/100 ml	
Escherichia coli, confirmed [XD005]								
Escherichia coli, confirmed	*	11/07/24 17:31				186	cfu/100 ml	
Faecal Coliforms 44°C 0 - 80 cfu/100ml [XD012]								
Faecal Coliforms 44°	*	11/07/24 17:31				100	cfu/100 ml	

4 Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T
JV: SFS-EN ISO/IEC 17025:2017 FINAS T039



Signed: _____

Niamh Ward - Senior Laboratory Analyst

23/07/2024

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