Annual Environmental Report

2019

Coachford

D0427-01

CONTENTS

7 APPENDIX

7.1 AMBIENT MONITORING SUMMARY

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0427-01, Coachford, in Cork in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

DBO contractor appointed to carry out upgrade works

1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

- Coachford WWTP with a Plant Capacity PE of 402, the treatment type is 1 - Primary treatment

1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF0500D0427SW001	Coachford WWTP	Treated	Non-Compliant	Ammonia-Total (as N) mg/l BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l Total Phosphorus (as P) mg/l

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
Priority Substances Assessment	Yes

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 COACHFORD WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - COACHFORD WWTP

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
Total Phosphorus (as P) mg/l	6	6.54	2.01
COD-Cr mg/l	6	460	144.33
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	6	195	75
Suspended Solids mg/l	6	99	53.67
Hydraulic Capacity	N/A	1336.5	222.75

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is greater than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional ‘Operational Performance Summary’.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF0500D0427SW001

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	6	2	1	135	Fail
Suspended Solids mg/l	25	62.5	N/A	6	2	1	38.83	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	3	2	65.03	Fail
pH pH units	9	9	N/A	6	N/A	N/A	7.32	Pass
Ammonia-Total (as N) mg/l	6.5	7.8	N/A	6	4	3	11.57	Fail
Total Phosphorus (as P) mg/l	1.2	1.44	N/A	6	3	2	1.83	Fail
Faecal coliforms no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
E. Coli no./100mls	N/A	N/A	N/A	6	N/A	N/A	N/A	
Enterococci (Intestinal) no./100mls	N/A	N/A	N/A	6	N/A	N/A	4032.67	

Notes:
1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

Cause of Exceedance(s):

Plant over loaded

Significance of Results:

The WWTP is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section 2

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0500D0427SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Downstream	146156, 71656	LS190022800800020	No	Yes	No	No	Moderate

The results for ambient results and / or additional monitoring data sets are included in the **Appendix 7.1 - Ambient monitoring summary**

Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

The discharge from the wastewater treatment plant does have an observable negative impact on the Water Framework Directive status.

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - COACHFORD WWTP

2.1.4.1 Treatment Efficiency Report - Coachford WWTP

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
COD	11735	10976	6.47
TN	N/A	N/A	N/A
SS	4363	3157	28
TP	163	149	8.65
cBOD	6098	5287	13

Note: The above data is based on sample results for the number of dates reported

2.1.4.2 Treatment Capacity Report Summary - Coachford WWTP

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Coachford WWTP	
Peak Hydraulic Capacity (m^3/day) - As Constructed	72
DWF to the Treatment Plant (m^3/day)	72
Current Hydraulic Loading - annual max (m^3/day)	1336.5

Coachford WWTP	
Average Hydraulic loading to the Treatment Plant (m^3/day)	222.75
Organic Capacity (PE) - As Constructed	402
Organic Capacity (PE) - Collected Load (peak week)[Note1]	642
Organic Capacity (PE) - Remaining	0
Will the capacity be exceeded in the next three years? (Yes/No)	Yes

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.1.5 SLUDGE / OTHER INPUTS - COACHFORD WWTP

'Other inputs' to the waste water treatment plant are summarised in table below

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
There is no Sludge and Other Input data for the Treatment Plant included in the AER.							

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2019.			

3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	EO caused by ragging or blocking	1	No	Yes
Breach of ELV	WWTP upgrade required to meet ELV	1	Yes	No
Specified % Reduction Value not achieved	WWTP operating above capacity	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	3
Number of Incidents reported to the EPA via EDEN in 2019	3
Explanation of any discrepancies between the two numbers above	N/A

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
TBC	TBC	No	Unknown	Not yet Assessed	Unknown	Unknown	Unknown
SW002	145955, 73162	Yes	Unknown	Not Meeting	Unknown	Unknown	Monitored
SW003	145947, 73165	Yes	Unknown	Not Meeting	Unknown	Unknown	Not Monitored
TBC	145996.391584285, 73145.7869810355	No	Low	Not Meeting	Unknown	Unknown	Not Monitored

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	No

SWO Summary	
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	Yes

4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
D0427-SIP:01	Improvement works to ensure compliance with Condition 1.7 of this licence	C	31/12/2018	Yes	Work ongoing on-site	31/12/2021	

A summary of the status of any improvements identified by under Condition 5.2 is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
There are no Improvements Programme for this Agglomeration.				

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Table.

5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Drinking Water Abstraction Point Risk Assessment	Yes	2016	No	
Priority Substances Assessment	Yes	2016	Yes	5.2

5.1 DRINKING WATER ABSTRACTION POINT RISK ASSESSMENT

The Drinking Water Abstraction Point Risk Assessment Report has been included in the AER 2016

5.2 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report is included in Appendix . A summary of the findings of this report is included below.

Parameter	Value
There is no Finding Question data included in this Licence Specific Report.	

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	Yes
List reason e.g. changes to monitoring requirements	Primary discharge relocation & additional SWO Identified
Have these processes commenced?	Yes
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed: Date: 22/04/2020

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Katherine Walshe

Acting Head of Environmental Regulation.

7 APPENDIX

Appendix
Appendix 7.1 - Ambient monitoring summary

Wat+A1:U9590erbo	WaterbodyCode	Waterbody	Monitorinç	SampleDate	ParameterName	Parameter	Result	TextResult	ResultStrin	LimitOfDet	ReportResı	ReportTexI	ReportResı	ReportLimit
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Alkalinity-total (as CaCO3)	mg/l	40		OK	10	40		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Alkalinity-total (as CaCO3)	mg/l	19		OK	10	19		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Alkalinity-total (as CaCO3)	mg/l	23		OK	10	23		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Alkalinity-total (as CaCO3)	mg/l	23		OK	10	23		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Alkalinity-total (as CaCO3)	mg/l	31		OK	10	31		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Alkalinity-total (as CaCO3)	mg/l	34		OK	10	34		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Alkalinity-total (as CaCO3)	mg/l	43		OK	10	43		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Alkalinity-total (as CaCO3)	mg/l	29		OK	10	29		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Alkalinity-total (as CaCO3)	mg/l	29		OK	10	29		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Alkalinity-total (as CaCO3)	mg/l	23		OK	10	23		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Alkalinity-total (as CaCO3)	mg/l	30		OK	10	30		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Alkalinity-total (as CaCO3)	mg/l	28		OK	10	28		OK	10
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Ammonia-Total (as N)	mg/l	0.063		OK	0.02	0.063		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Ammonia-Total (as N)	mg/l	0.032		OK	0.02	0.032		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Ammonia-Total (as N)	mg/l	0.043		OK	0.02	0.043		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Ammonia-Total (as N)	mg/l	0.047			0	0.047			
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Ammonia-Total (as N)	mg/l	0.045		OK	0.02	0.045		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Ammonia-Total (as N)	mg/l	0.03		OK	0.02	0.03		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Ammonia-Total (as N)	mg/l	0.02		OK	0.02	0.02		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Ammonia-Total (as N)	mg/l	0.029			0	0.029			
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Ammonia-Total (as N)	mg/l	0.058		OK	0.02	0.058		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Ammonia-Total (as N)	mg/l	0.058		OK	0.02	0.058		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Ammonia-Total (as N)	mg/l		<0.02	OK	0.02	0.01	<0.02	OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Ammonia-Total (as N)	mg/l	0.047		OK	0.02	0.047		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Ammonia-Total (as N)	mg/l	0.024			0	0.024			
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Ammonia-Total (as N)	mg/l	0.042		OK	0.02	0.042		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Ammonia-Total (as N)	mg/l	0.029		OK	0.02	0.029		OK	0.02
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	BOD - 5 days (Total)	mg/l	1.3			1	1.3			1
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	BOD - 5 days (Total)	mg/l	1.5			1	1.5			1
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	BOD - 5 days (Total)	mg/l	2.1			1	2.1			1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Chlorophyll	µg/l	1.8		OK	1	1.8		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Chlorophyll	µg/l	1.9		OK	1	1.9		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Chlorophyll	µg/l	2.6		OK	1	2.6		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Chlorophyll	µg/l	2.2		OK	1	2.2		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Chlorophyll	µg/l	11		OK	1	11		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Chlorophyll	µg/l	16		OK	1	16		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Chlorophyll	µg/l	9.5		OK	1	9.5		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Chlorophyll	µg/l	26		OK	1	26		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Chlorophyll	µg/l	26		OK	1	26		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Chlorophyll	µg/l	4.4		OK	1	4.4		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Chlorophyll	µg/l	1		OK	1	1		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Chlorophyll	µg/l		<1	OK	1	0.5	<1	OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Conductivity @25°C	µS/cm	166		OK	15	166		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Conductivity @25°C	µS/cm	107		OK	15	107		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Conductivity @25°C	µS/cm	108		OK	15	108		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Conductivity @25°C	µS/cm	104		OK	15	104		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Conductivity @25°C	µS/cm	125		OK	15	125		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Conductivity @25°C	µS/cm	139		OK	15	139		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Conductivity @25°C	µS/cm	155		OK	15	155		OK	15

Wat+A1:U9590erbo	WaterbodyCode	Waterbody	MonitoringS	SampleDate	ParameterName	Parameter	Result	TextResult	ResultStrin	LimitOfDet	ReportResı	ReportTexI	ReportResı	ReportLimit
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Conductivity @25°C	µS/cm	118		OK	15	118		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Conductivity @25°C	µS/cm	118		OK	15	118		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Conductivity @25°C	µS/cm	110		OK	15	110		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Conductivity @25°C	µS/cm	124		OK	15	124		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Conductivity @25°C	µS/cm	123		OK	15	123		OK	15
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Depth	m	0.3		OK		0.3		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Dissolved Oxygen	mg/l	10.7		OK	0.1	10.7		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Dissolved Oxygen	% Saturatic	90		OK	1	90		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Dissolved Oxygen	% Saturatic	93		OK	1	93		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Dissolved Oxygen	mg/l	11.1		OK	0.1	11.1		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Dissolved Oxygen	% Saturatic	93		OK	1	93		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Dissolved Oxygen	mg/l	11		OK	0.1	11		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Dissolved Oxygen	% Saturatic	94.8			0	94.8			
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Dissolved Oxygen	% Saturatic	94		OK	1	94		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Dissolved Oxygen	mg/l	9.9		OK	0.1	9.9		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Dissolved Oxygen	mg/l	10.1		OK	0.1	10.1		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Dissolved Oxygen	% Saturatic	97		OK	1	97		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Dissolved Oxygen	% Saturatic	92		OK	1	92		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Dissolved Oxygen	mg/l	9.3		OK	0.1	9.3		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Dissolved Oxygen	% Saturatic	105			0	105			
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Dissolved Oxygen	mg/l	9		OK	0.1	9		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Dissolved Oxygen	% Saturatic	101		OK	1	101		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Dissolved Oxygen	mg/l	8.3		OK	0.1	8.3		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Dissolved Oxygen	% Saturatic	88		OK	1	88		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Dissolved Oxygen	% Saturatic	92		OK	1	92		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Dissolved Oxygen	mg/l	8.8		OK	0.1	8.8		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Dissolved Oxygen	% Saturatic	88		OK	1	88		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Dissolved Oxygen	mg/l	9.1		OK	0.1	9.1		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Dissolved Oxygen	% Saturatic	96.1			0	96.1			
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Dissolved Oxygen	% Saturatic	95		OK	1	95		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Dissolved Oxygen	mg/l	11.5		OK	0.1	11.5		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Dissolved Oxygen	mg/l	11.7		OK	0.1	11.7		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Dissolved Oxygen	% Saturatic	95		OK	1	95		OK	1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	E. Coli	no./100ml	1986			0	1986			
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	E. Coli	no./100ml	344			0	344			
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	E. Coli	no./100ml	105			0	105			
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Enterococci (Intestinal)	no./100ml	365			0	365			
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Enterococci (Intestinal)	no./100ml	29			0	29			

Wat+A1:U9590erbo	WaterbodyCode	Waterbody	Monitoring	SampleDate	ParameterName	Parameter	Result	TextResult	ResultStrin	LimitOfDet	ReportResu	ReportTexI	ReportResu	ReportLimit
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Enterococci (Intestinal)	no./100ml	23			0	23			
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Faecal coliforms	no./100ml	1300			0	1300			
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Faecal coliforms	no./100ml	225			0	225			
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Faecal coliforms	no./100ml	105			0	105			
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Nitrate (as N)	mg/l	2.3		OK	0.2	2.3		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Nitrate (as N)	mg/l	1.7		OK	0.2	1.7		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Nitrate (as N)	mg/l	1.4		OK	0.2	1.4		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Nitrate (as N)	mg/l	1.4		OK	0.2	1.4		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Nitrate (as N)	mg/l	1.4		OK	0.2	1.4		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Nitrate (as N)	mg/l	1.6		OK	0.2	1.6		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Nitrate (as N)	mg/l	1.1		OK	0.2	1.1		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Nitrate (as N)	mg/l	0.57		OK	0.2	0.57		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Nitrate (as N)	mg/l	0.75		OK	0.2	0.75		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Nitrate (as N)	mg/l	0.87		OK	0.2	0.87		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Nitrate (as N)	mg/l	1.5		OK	0.2	1.5		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Nitrate (as N)	mg/l	1.6		OK	0.2	1.6		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Nitrite (as N)	µg/l	13.1		OK	4	13.1		OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Nitrite (as N)	µg/l	20.6		OK	4	20.6		OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Nitrite (as N)	µg/l	17.7		OK	4	17.7		OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Nitrite (as N)	µg/l	8.22		OK	4	8.22		OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Nitrite (as N)	µg/l		<4	OK	4	2	<4	OK	4
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	ortho-Phosphate (as P) - unspecifie	mg/l	0.016		OK	0.01	0.016		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	ortho-Phosphate (as P) - unspecifie	mg/l	0.012		OK	0.01	0.012		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	ortho-Phosphate (as P) - unspecifie	mg/l	0.02		OK	0.01	0.02		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	ortho-Phosphate (as P) - unspecifie	mg/l	0.019			0	0.019			
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	ortho-Phosphate (as P) - unspecifie	mg/l	0.012		OK	0.01	0.012		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	ortho-Phosphate (as P) - unspecifie	mg/l		<0.01	OK	0.01	0.005	<0.01	OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	ortho-Phosphate (as P) - unspecifie	mg/l		<0.01	OK	0.01	0.005	<0.01	OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	ortho-Phosphate (as P) - unspecifie	mg/l	0.005			0	0.005			
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	ortho-Phosphate (as P) - unspecifie	mg/l		<0.01	OK	0.01	0.005	<0.01	OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	ortho-Phosphate (as P) - unspecifie	mg/l		<0.01	OK	0.01	0.005	<0.01	OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	ortho-Phosphate (as P) - unspecifie	mg/l		<0.01	OK	0.01	0.005	<0.01	OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	ortho-Phosphate (as P) - unspecifie	mg/l		<0.01	OK	0.01	0.005	<0.01	OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	ortho-Phosphate (as P) - unspecifie	mg/l	0.011		OK	0.01	0.011		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	ortho-Phosphate (as P) - unspecifie	mg/l	0.012		OK	0.01	0.012		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	pH	pH units	7.4		OK	2	7.4		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	pH	pH units	7.1		OK	2	7.1		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	pH	pH units	7.2		OK	2	7.2		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	pH	pH units	7.5			2	7.5			2
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	pH	pH units	6.9		OK	2	6.9		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	pH	pH units	7.2		OK	2	7.2		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	pH	pH units	7.3		OK	2	7.3		OK	2

Wat+A1:U9590erbo	WaterbodyCode	Waterbody	Monitorin	SampleDate	ParameterName	Parameter	Result	TextResult	ResultStrin	LimitOfDet	ReportResı	ReportTexI	ReportResı	ReportLimit
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	pH	pH units	7.8			2	7.8			2
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	pH	pH units	7.5		OK	2	7.5		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	pH	pH units	7.4		OK	2	7.4		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	pH	pH units	7.5		OK	2	7.5		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	pH	pH units	7.7		OK	2	7.7		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	pH	pH units	7			2	7			2
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	pH	pH units	7.2		OK	2	7.2		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	pH	pH units	7.2		OK	2	7.2		OK	2
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Silica (as SiO2)	mg/l	4.1		OK	0.1	4.1		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Silica (as SiO2)	mg/l	2.7		OK	0.1	2.7		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Silica (as SiO2)	mg/l	2.6		OK	0.1	2.6		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Silica (as SiO2)	mg/l	2		OK	0.1	2		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Silica (as SiO2)	mg/l	2.2		OK	0.1	2.2		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Silica (as SiO2)	mg/l	2.1		OK	0.1	2.1		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Silica (as SiO2)	mg/l	1.6		OK	0.1	1.6		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Silica (as SiO2)	mg/l	2		OK	0.1	2		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Silica (as SiO2)	mg/l	2.7		OK	0.1	2.7		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Silica (as SiO2)	mg/l	2.5		OK	0.1	2.5		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Silica (as SiO2)	mg/l	3		OK	0.1	3		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Silica (as SiO2)	mg/l	3.4		OK	0.1	3.4		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	StationDepth	m	14.4		OK	0.1	14.4		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	StationDepth	m	14.2		OK	0.1	14.2		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	StationDepth	m	14.2		OK	0.1	14.2		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	StationDepth	m	13.6		OK	0.1	13.6		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	StationDepth	m	12.4		OK	0.1	12.4		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	StationDepth	m	12.3		OK	0.1	12.3		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	StationDepth	m	10.6		OK	0.1	10.6		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	StationDepth	m	16.2		OK	0.1	16.2		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	StationDepth	m	15		OK	0.1	15		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	StationDepth	m	13.7		OK	0.1	13.7		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	StationDepth	m	13		OK	0.1	13		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	StationDepth	m	12.8		OK	0.1	12.8		OK	0.1
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Suspended Solids	mg/l			<2.5	2.5	1.25	<2.5		2.5
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Suspended Solids	mg/l	8			2.5	8			2.5
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Suspended Solids	mg/l	6			2.5	6			2.5
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Temperature	°C	7.6		OK		7.6		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Temperature	°C	7.2		OK		7.2		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Temperature	°C	7.8		OK		7.8		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Temperature	°C	11			0	11			
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Temperature	°C	13		OK		13		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Temperature	°C	13.4		OK		13.4		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Temperature	°C	15		OK		15		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Temperature	°C	17.7			0	17.7			
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Temperature	°C	20.6		OK		20.6		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Temperature	°C	18.2		OK		18.2		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Temperature	°C	17.4		OK		17.4		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Temperature	°C	13.9		OK		13.9		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Temperature	°C	10.6			0	10.6			
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Temperature	°C	7.2		OK		7.2		OK	

Wat+A1:U9590erbo	WaterbodyCode	Waterbody	MonitoringS	SampleDate	ParameterName	Parameter	Result	TextResult	ResultStrin	LimitOfDet	ReportResu	ReportTexI	ReportResu	ReportLimit
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Temperature	°C	7		OK		7		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Total Oxidised Nitrogen (as N)	mg/l	2.3		OK	0.2	2.3		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Total Oxidised Nitrogen (as N)	mg/l	1.7		OK	0.2	1.7		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Total Oxidised Nitrogen (as N)	mg/l	1.4		OK	0.2	1.4		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Total Oxidised Nitrogen (as N)	mg/l	1.4		OK	0.2	1.4		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Total Oxidised Nitrogen (as N)	mg/l	1.5		OK	0.2	1.5		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Total Oxidised Nitrogen (as N)	mg/l	1.6		OK	0.2	1.6		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Total Oxidised Nitrogen (as N)	mg/l	1.2		OK	0.2	1.2		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Total Oxidised Nitrogen (as N)	mg/l	0.57		OK	0.2	0.57		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Total Oxidised Nitrogen (as N)	mg/l	0.76		OK	0.2	0.76		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Total Oxidised Nitrogen (as N)	mg/l	0.88		OK	0.2	0.88		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Total Oxidised Nitrogen (as N)	mg/l	1.5		OK	0.2	1.5		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Total Oxidised Nitrogen (as N)	mg/l	1.6		OK	0.2	1.6		OK	0.2
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Total Phosphorus (as P)	mg/l	0.022		OK	0.01	0.022		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Total Phosphorus (as P)	mg/l	0.026		OK	0.01	0.026		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Total Phosphorus (as P)	mg/l	0.036		OK	0.01	0.036		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/04/2019 11:05	Total Phosphorus (as P)	mg/l			<0.05	0.05	0.025	<0.05		0.05
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Total Phosphorus (as P)	mg/l	0.041		OK	0.01	0.041		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Total Phosphorus (as P)	mg/l	0.022		OK	0.01	0.022		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Total Phosphorus (as P)	mg/l	0.021		OK	0.01	0.021		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	19/06/2019 11:15	Total Phosphorus (as P)	mg/l			<0.05	0.05	0.025	<0.05		0.05
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Total Phosphorus (as P)	mg/l	0.012		OK	0.01	0.012		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Total Phosphorus (as P)	mg/l	0.033		OK	0.01	0.033		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Total Phosphorus (as P)	mg/l	0.017		OK	0.01	0.017		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Total Phosphorus (as P)	mg/l	0.03		OK	0.01	0.03		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	23/10/2019 08:50	Total Phosphorus (as P)	mg/l			<0.05	0.05	0.025	<0.05		0.05
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Total Phosphorus (as P)	mg/l	0.025		OK	0.01	0.025		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Total Phosphorus (as P)	mg/l	0.019		OK	0.01	0.019		OK	0.01
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	Transparency	m	2.1		OK		2.1		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	Transparency	m	1.8		OK		1.8		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	Transparency	m	1.8		OK		1.8		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	Transparency	m	1.1		OK		1.1		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	Transparency	m	1.7		OK		1.7		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	Transparency	m	1.7		OK		1.7		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	Transparency	m	2.6		OK		2.6		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	Transparency	m	1.7		OK		1.7		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	Transparency	m	1.5		OK		1.5		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	Transparency	m	2		OK		2		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	Transparency	m	1.2		OK		1.2		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	Transparency	m	1.2		OK		1.2		OK	
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/01/2019 11:22	True Colour	mg/litre Pt	20		OK	5	20		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	13/02/2019 09:38	True Colour	mg/litre Pt	41		OK	5	41		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	06/03/2019 09:37	True Colour	mg/litre Pt	48		OK	5	48		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	24/04/2019 11:45	True Colour	mg/litre Pt	39		OK	5	39		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	01/05/2019 10:25	True Colour	mg/litre Pt	26		OK	5	26		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	05/06/2019 10:45	True Colour	mg/litre Pt	20		OK	5	20		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	17/07/2019 10:56	True Colour	mg/litre Pt	18		OK	5	18		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/08/2019 10:44	True Colour	mg/litre Pt	47		OK	5	47		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/09/2019 12:25	True Colour	mg/litre Pt	45		OK	5	45		OK	5

Wat+A1:U9590erbo	WaterbodyCode	Waterbody	Monitoring	SampleDate	ParameterName	Parameter	Result	TextResult	ResultStrin	LimitOfDet	ReportResı	ReportTexI	ReportResı	ReportLimit
Inniscarra	IE_SW_19_138	Lake	LS1900228	02/10/2019 10:15	True Colour	mg/litre Pt	64		OK	5	64		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	14/11/2019 11:46	True Colour	mg/litre Pt	50		OK	5	50		OK	5
Inniscarra	IE_SW_19_138	Lake	LS1900228	04/12/2019 11:11	True Colour	mg/litre Pt	45		OK	5	45		OK	5