Annual Environmental Report





Mooncoin

D0145-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0145-01, Mooncoin, in Kilkenny 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.

1.2 TREATMENT SUMMARY

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

• Mooncoin WWTP with a Plant Capacity PE of 2800, the treatment type is 2 - Secondary 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
TPEFF1500D0145SW001	Mooncoin WWTP	Treated	Compliant	N/A

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

There are no Licence Specific Reports included in this AER.

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 MOONCOIN WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - MOONCOIN 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	12	20	6.54
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	12	330	154
Total Nitrogen mg/l	12	85	37
Suspended Solids mg/l	12	425	249
COD-Cr mg/l	12	882	538
Ammonia-Total (as N) mg/l	12	46	26
pH units	12	8.03	7.36
Hydraulic Capacity	N/A	4166	460

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 less 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 - TPEFF1500D0145SW001

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	12	N/A	N/A	35	Pass
Suspended Solids mg/l	35	87.5	N/A	12	N/A	N/A	9.85	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	25	50	N/A	12	N/A	N/A	5.49	Pass
Total Oxidised Nitrogen (as N) mg/l	15	18	N/A	12	N/A	N/A	5.94	Pass
Ammonia-Total (as N) mg/l	10	12	N/A	12	N/A	N/A	0.057	Pass
pH units	9.00	9.00	N/A	12	N/A	N/A	7.30	Pass
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	11	N/A	N/A	1.83	

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 exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
Total Nitrogen mg/l	N/A	N/A	N/A	12	N/A	N/A	6.74	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	12	N/A	N/A	2.41	

Notes:

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

2 - For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

Not applicable

Significance of Results:

The WWTP is compliant with the ELV's set in the Wastewater Discharge Licence.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1500D0145SW001

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 Ecological Status
Upstream	248789, 115586	TW31002103SR5003	No	No	No	No	Poor

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 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 not have an observable negative impact on the Water Framework Directive status.

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - MOONCOIN WWTP

2.1.4.1 Treatment Efficiency Report - Mooncoin 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)
TN	7819	601	92
cBOD	32782	490	99
ТР	1394	214	85

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
SS	53200	878	98
COD	114688	3116	97

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

2.1.4.2 Treatment Capacity Report Summary - Mooncoin 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.

Mooncoin WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	1890
DWF to the Treatment Plant (m ³ /day)	630
Current Hydraulic Loading - annual max (m³/day)	4166
Average Hydraulic loading to the Treatment Plant (m³/day)	460
Organic Capacity (PE) - As Constructed	2800
Organic Capacity (PE) - Collected Load (peak week) ^{Note1}	1381
Organic Capacity (PE) - Remaining	1419
Will the capacity be exceeded in the next three years? (Yes/No)	No

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 - MOONCOIN 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 related to the discharge(s) to water from the WWTP and network is included below.

	Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2021.				

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)		
There were no reportable incidents in 2021.						

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	0
Number of Incidents reported to the EPA via EDEN in 2021	0
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 (chamber) where applicable	or Storm Water Ref. Schedule of verflow (chamber) (outfall) the WWDI		Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2021 (No. of events)	Total volume discharged in 2021 (m3)	Monitoring Status
SWO02	246806, 119617	Yes	Unknown	Not yet Assessed	Unknown	Unknown	Unknown

Any TBC SWO(s) were identified as part of the on-going National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

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?	N/A
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?	N/A

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 a 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	Completion Expired?		Timeframe for Completing the Work	Comments				
There are no Specified Improvement Programmes for this Agglomeration.											

A summary of the status of any other improvements identified by under Condition 5 assessments- is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement	Improvement Description / or any Operational	Improvement	Expected Completion	Comments
Identifier	Improvements	Source	Date	
No additional improver	nents planned at this time.			

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 Tables 4.2.1 and 4.2.2.

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 a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Licence Specific Report	Required by licence	Year included in AER	Included in this AER
Priority Substances Assessment	Yes	2015	No

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
Has a Technical amendment/licence review application been submitted to the Agency by IW?	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	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	N/A

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

Signed: Date: 12/04/2022

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

	D0145 Mooncoin upstream																			
And and a beg by	WaterbodyName Middle Suir Estuary Middle Suir Estuary		Waterbodytype Transitional Transitional	MonitoringStationCode TW31002103585003 TW31002103585003	MonitoringStationName SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	MonitoringStationType PreWfd PreWfd				SampleMethod TRaC Depth Composite TRaC Depth Composite	ParameterName Ammonia-Total (as N) Ammonia-Total (as N)	ParameterUnitShortCode mg/l me/l	ParameterUnitName milligrams per litre milligrams per litre	Result TextResu 0.052	CK CK	LimitOfDetection 0.01	ReportResult 0.052 0.017	ReportTextResult	leportResultString XK	ReportUnit 0.01
	Middle Suir Estuary Middle Suir Estuary		Transitional Transitional		SR340 - Suir Estuary at Polirone Quay		Waterford City & County Council	21-11203	24/02/2021 15/07/2021	TReC Depth Composite TReC Depth Composite	BOD - 5 days (Total) Arrenonia-Total (as N)	men mg/l	milligrams per litre milligrams per litre	17 0.022	OK OK	0.01	1.7	0	2K 2K	1
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IF SF 100 0550	Transitional Transitional	TW310021035F5003	SR340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council	21-08854	15/06/2021	TReC Depth Composite TReC Depth Composite	Chlorophyli a (fluorescence) Chlorophyli a (fluorescence) Chlorophyli a (fluorescence)	Auto/1 Auto/1 Auto/1	Microgrammes per Litre Microgrammes per Litre	8.4 25	OK OK	0.01	10 14 25		ж ж	0.01
	Middle Suir Estuary			TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWid PreWid	Waterford City & County Council Waterford City & County Council	21-08854 21-15817			Depth Depth BOD - 5 days (Total)	m m me/l	Metres Metres millerams per litre	45 45 11	OK OK		45 45 11		2K 2K 2K	1
	Middle Soir Estuary Middle Soir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	58340 - Suir Estuary at Polirone Quay 58340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council	21-15817	15/09/2021 24/02/2021	TReC Depth Composite TReC Depth Composite	BOD - 5 days (Total) Depth	mell m % Saturation	miligrams per litre Metres	13 4	OK OK	1	13 4		2K 2K	1
	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-08854 21-15817	15/06/2021 15/09/2021	TRaC Depth Composite TRaC Depth Composite	Dissolved Oxygen Dissolved Oxygen	% Saturation % Saturation	Percentage Saturation Percentage Saturation	118 95	OK OK	1	118 25		2K 2K	1
	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-03194 21-08854	15/06/2021	TReC Depth Composite TReC Depth Composite	ortho-Phosphate (as P) - unspecified ortho-Phosphate (as P) - unspecified		miligrams per litre miligrams per litre		OK OK	0.005	0.035		ж ж	0.005
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550		TW31002103585003 TW31002103585003 TW31002103585003	58340 - Suir Extuary at Polirone Quay 58340 - Suir Extuary at Polirone Quay 58340 - Suir Extuary at Polirone Quay	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-15817 21-11203 21-03194	15/07/2021	TReC Depth Composite	ortho-Phosphate (as P) - unspecified off Salinity(Lab)	oH units Q/oo	milligrams per litre pH Units Q/oo	0.011 8.4 <0.1	OK OK	0.005 2 0.1	0.011 8.4 0.05	<0.1	2K 2K 2K	0.005 2 0.1
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-08854 21-15817	15/09/2021	TReC Depth Composite TReC Depth Composite TReC Depth Composite	Salinity(Lab)		0/oo 0/oo Percentage Saturation		OK OK	01	0.2		2K 2K 2K	01
A </td <td>Middle Suir Estuary Middle Suir Estuary</td> <td>IE 5E 100 0550</td> <td>Transitional Transitional</td> <td>TW310021035R5003 TW310021035R5003</td> <td>58340 - Suir Estuary at Polirone Quay 58340 - Suir Estuary at Polirone Quay</td> <td>PreWfd</td> <td>Waterford City & County Council Waterford City & County Council</td> <td>21-08854 21-11203</td> <td>15/06/2021 15/07/2021</td> <td>TReC Depth Composite TReC Depth Composite</td> <td>Salinity Salinity</td> <td>993</td> <td>Practical salinity units Practical salinity units</td> <td>0.2</td> <td>OK OK</td> <td>0.1</td> <td>0.2</td> <td></td> <td>2K 2K</td> <td>0.1</td>	Middle Suir Estuary Middle Suir Estuary	IE 5E 100 0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	58340 - Suir Estuary at Polirone Quay 58340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council Waterford City & County Council	21-08854 21-11203	15/06/2021 15/07/2021	TReC Depth Composite TReC Depth Composite	Salinity Salinity	993	Practical salinity units Practical salinity units	0.2	OK OK	0.1	0.2		2K 2K	0.1
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council Waterford City & County Council	21-11203	15/07/2021 15/07/2021	TReC Depth Composite	SationDepth	m Q/00	Metres Q/oo	7 0.3	CK CK	0.1	0.5 7 0.3		ж ж	0.1
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW310021035F5003	SR340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council	21-15817	15/09/2021	TReC Depth Composite TReC Depth Composite TReC Depth Composite	oH oH Pheophytin a	oH units oH units ŵg/l	abl Daile		OK OK	2 2 0.01	8.0 8.2 2.8		2K 2K 2K	2 2 0.01
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWid PreWid	Waterford City & County Council Waterford City & County Council	21-15817 21-03194	24/02/2021	TReC Depth Composite TReC Depth Composite	Pheophytin a Transparency	Aue/l m mg/l	Microgrammes per Litre Metres	2.8	OK OK	0.01	2.8 0.5 0.39		2K 2K 2K	0.01
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550		TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd PreWfd			14/03/10011	TRof Doubh Companies		PSU Ă'C Ă'C	Degrees centrigrade	2.5	OK OK	0.1	0.1 9.5 18.8		2K 2K 2K	0.1
	Middle Suir Extuary Middle Suir Extuary	16 58 100 0550 18 58 100 0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-03194	24/02/2021 24/02/2021	TRaC Depth Composite TRaC Depth Composite	Silice (as SIO2) Total Oxidised Nitrogen (as N)	mell mell	milligrams per litre milligrams per litre		OK OK	0.1	29 15		2K 2K	0.1
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11203 21-15817	15/07/2021	TReC Depth Composite TReC Depth Composite	Temperature Temperature	Arc Arc	Degrees centrigrade Degrees centrigrade	18.7	OK OK		18.7 17.2		26 26 26	
	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW31002103585003 TW31002103585003	58340 - Suir Estuary at Polirone Quay 58340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11203 21-15817	15/07/2021 15/09/2021	TReC Depth Composite TReC Depth Composite	Transparency Transparency	m	Metres Metres	0.5	OK OK		0.5 0.5	0	2K 2K	
	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11203 21-15817	15/07/2021	TReC Depth Composite TReC Depth Composite TReC Depth Composite	BOD - 5 days (Total) Chlorophyll a (Fluorescence)		millierams per litre		OK OK	0.01	0.029 2.1 14		2K 2K 2K	0.01
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional Transitional Transitional	TW31002103585003 TW31002103585003 TW31002103585003	58340 - Suir Extuary at Polirone Quay 58340 - Suir Extuary at Polirone Quay 58340 - Suir Extuary at Polirone Quay	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-11203 21-03194 21-03194	15/07/2021 24/02/2021 24/02/2021	TReC Depth Composite TReC Depth Composite TReC Depth Composite	Mo	m oH units ŵg/l	Metres off Units Microgrammes per Litre	6.6 7.8 4.5	OK OK	2	6.6 7.8 4.5	0	2K 2K 2K	2
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5003 TW310021035R5003	SR340 - Suir Estuary at Polirone Quay SR340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council Waterford City & County Council	21-11203 21-08854	15/07/2021	TRaC Depth Composite TRaC Depth Composite	Pheophytin a Silica (as 5:02)	Aug ngh mel	milligrams per litre		OK OK		1.5 0.16 0.05	<0.1	2K 2K 2K	0.01
	Middle Suir Extuary Middle Suir Extuary	IE SE 100 0550	Transitional	TW310021035R5003	SE340 - Soir Extuary at Polirona Ouay	PreWfd	Waterford City & County Council	21-03194 21-08854	24/02/2021	TReC Depth Composite	SationDepth	m m	Metres Metres	42	OK OK	0.1	42		2K 2K	0.1
	Middle Suir Estuary	18_58_100_0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council	21-08854	15/07/2021	TReC Depth Composite	TOC (as NPOC)	nen ngn	miligrams per litre	28	ak ak	2	28		ж	2
	Middle Suir Estuary	IF SF 100 0550	Transitional	TW31002103585003	SE140 - Suir Extuary at Polizone Ouey	Developed	Waterford City & County Council	21,11201	15/07/2021	TReC Depth Composite	Total Oxidised Nitrogen (as N)	mañ mañ	milligrams per litre		OK OK		2.4 2.2 2	6	2K 2K	0.01 0.01
	Middle Suir Estuary D0145 Mooncoln downstream											Im	Metres	0.5	Los	·	0.8	T	26]
	WaterbodyName Middle Suir Estuary Middle Suir Estuary	WaterbodyCode 16_56_100_0550 16_56_100_0550	Waterbodytype Transitional Transitional	MonitoringStationCode TW31002103585005 TW31002103585005	MonitoringStationName SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd	MonitoringStationLocalAuthority Waterford City & County Council Waterford City & County Council	SampleCode 21-11204 21-11205	SempleDate 15/07/2021 15/07/2021	SampleMethod TReC Surface TReC Bottom	Ammonia-Total (as N)	meA	milligrams per litre	0.012		0.01	0.012	ReportTextResult	leportResultString 2K 3K	ReportLimit 0.01 0.01
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW31002103585005 TW31002103585005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11207 21-15815	15/07/2021 15/09/2021	TReC Bottom Return TReC Surface	Ammonia-Total (as N) Ammonia-Total (as N)	mgA mgA	milligrams per litre milligrams per litre	0.024 0.035	OK OK	0.01	0.024		2K 2K	0.01
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-08857 21-15816 21-08852	15/06/2021 15/09/2021 15/06/2021	TRaC Surface Return TRaC Bottom TRaC Surface	Ammonia-Total (as N) Ammonia-Total (as N)	meA	miligrams per litre miligrams per litre	0.021	CK	0.01	0.021		2K 2K	0.01
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-08853 21-15820	15/06/2021 15/09/2021	TReC Bottom TReC Surface Return	Ammonia-Total (as N) Ammonia-Total (as N)	mg/l mg/l	miligrams per litre miligrams per litre	0.028	CK CK	0.03	0.028	-	а Ж Ж	0.01
	Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-15820 21-08857	15/09/2021 15/06/2021	TReC Surface Return TReC Surface Return	Chlorophyli a (Fluorescence)		Microgrammes per Litre	2.1	OK OK	0.01 0.01 0.02	2.1 5.4 8.3	0	28. 26. 26.	0.01
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodee	PreWfd PreWfd	Waterford City & County Council	21-03197	24/02/2021	TReC Surface Return	Depth Depth	m m	Metres Metres Metres	0 6.5	OK OK		0 0 65		2K 2K	늰
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-03192 21-03193	24/02/2021 24/02/2021	TRaC Surface TRaC Bottom	Depth	m m		0	OK OK		03		2K 2K	目
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City 8, County Council	31.11354	15/07/2021 15/07/2021	TRaC Bottom TRaC Bottom Return	Death	m m	Metres	9.2	OK OK		92 7.9 7.9		2K 2K	F
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-03193 21-08853	24/02/2021 15/06/2021	TRaC Bottom TRaC Bottom	Dissolved Oxygen	m % Saturation % Saturation	Percentage Saturation	204	CK CK	1	93 104		ж ж	1
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodee	PreWfd	Waterford City & County Council	21-15815	15/09/2021	TReC Surface	Dissolved Oxygen		Percentage Saturation	55	OK OK	1	97 85 85	0	2K 2K 2K	1
	Middle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550		TW310021035R5005 TW310021035R5005 TW310021035R5005		PreWfd PreWfd PreWfd		21-08852	24/02/2021 15/06/2021 15/06/2021	TRaC Surface TRaC Surface TRaC Bottom Return		% Saturation % Saturation % Saturation	Percentage Saturation Percentage Saturation Percentage Saturation	91 205 209	OK OK	1	91 105 109		2K 2K 2K	1
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW11002103585005 TW11002103585005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11207 21-11204	15/07/2021	TReC Bottom Return TReC Surface	Dissolved Oxygen Chlorophyll a (fluorescence)	% Saturation	Percentage Saturation Microgrammes per Litre	208	OK OK		108		ж ж	0.01
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-15815 21-11204	15/09/2021	TReC Surface TReC Surface	Chlorophyli a (fluorescence) pH	Aux/l pH units	Microerammes per Litre pH Units	8.9 8.3	OK OK	0.01	19 13		2K 2K	0.01
Name Name Name Name Name Name Name Nam	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-03198 21-15821	24/02/2021 15/09/2021	TRaC Bottom Raturn TRaC Bottom Raturn	ortho-Phosphate (as P) - unspecified ortho-Phosphate (as P) - unspecified pH	mg/l mg/l pH units	milligrams per litre	0.035	OK OK	0.005 0.005 2	0.039	0	2K 2K	0.005
N N N N N N N N N N N N N N N N N N N	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE 5E 100 0550 IE 5E 100 0550 IE 5E 100 0550	Transitional Transitional Transitional		SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-11204	15/07/2021	TBaC Surface	Depth ortho-Phosphate (as P) - unspecified ortho-Phosphate (as P) - unspecified	m mell mgli	Metres miligrams per litre miligrams per litre	8.5 0.022 0.03	OK OK	0.005	8.5 0.022 0.03		2K 2K 2K	0.005
	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council Waterford City & County Council	21-08852	15/06/2021	TReC Surface TReC Surface	Pheophytin a Pheophytin a	Aust Aust	Microeremmes per Litre Microeremmes per Litre	19 25	ax ax	0.01	19 25		2K 2K	0.01
	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005	58350 - Suir Estuary at Suir Lodge 58350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-15816 21-15815	15/09/2021 15/09/2021	TReC Bottom TReC Surface	Depth	m mg/l	Metres miligrams per litre	6.5 0.013	OK OK	0.005			ж ж	0.005
	Middle Soir Estuary Middle Soir Estuary	IE_SE_100_0550			SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-08857 21-11205	15/06/2021 15/07/2021	TRaC Surface Return TRaC Bottom		PSU PSU	Practical salinity units Practical salinity units	0.4	OK OK	0.1	0.4 1.5		2K 2K	0.1
N N N N N N N N N N N N N N N N N <td>Middle Suir Estuary Middle Suir Estuary</td> <td>IE_SE_100_0550</td> <td>Transitional Transitional</td> <td>TW310021035R5005 TW310021035R5005</td> <td>SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodge</td> <td>PreWfd</td> <td>Waterford City & County Council Waterford City & County Council</td> <td>21-08852 21-08853</td> <td>15/06/2021 15/06/2021</td> <td>TReC Surface TReC Bottom</td> <td>Salinity pH pH</td> <td>pSU pH units pH units</td> <td>off Units</td> <td>8.4</td> <td>OK OK</td> <td>0.1 2 2</td> <td>52 84 85</td> <td></td> <td>2K 2K 2K</td> <td>2</td>	Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-08852 21-08853	15/06/2021 15/06/2021	TReC Surface TReC Bottom	Salinity pH pH	pSU pH units pH units	off Units	8.4	OK OK	0.1 2 2	52 84 85		2K 2K 2K	2
N N N N N N N N N N N N N N N N N N N	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee		Waterford City & County Council	21-11207	15/07/2021	TReC Bottom Return	pH oH Pheophytin a	pH units pH units ŵg/l	pH Units pH Units Microgrammes per Litre	8.3 8.3 4.7	OK OK	2 2 0.01	#3 #3 47	0	2K 2K 2K	2 0.01
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IF SF 100 0550	Transitional Transitional Transitional	TW31002103585005	SE150 - Sair Extrany at Sair Lodes	PreWfd	Waterford City & County Council	21-08857	15/06/2021	TBaC Surface Beturn	Pheophytin a Salinity(Lab) Dissolved Ocomen	Aue/I 0/co % Saturation	Microerammes per Litre G/oo Percentage Saturation		OK OK	0.01	15 0.3 91		2K 2K 2K	0.01
B B B B B B B B <	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW110021035R5005 TW110021035R5005	SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodee	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11204	15/07/2021	TReC Surface TReC Surface Return	Dissolved Oxygen Dissolved Oxygen	% Saturation % Saturation	Percentage Saturation Percentage Saturation	201 205	CK CK	1	101 105	6	2K 2K	1
Desc Desc Desc Desc Desc Des	Middle Soir Estuary Middle Soir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-03197	24/02/2021	TReC Surface Return TReC Surface Return	Silica (as SiO2)	mell mgli	millierams per litre	3	OK OK	0.1	3 0.1		2K 2K	0.1
	Middle Suir Estuary Middle Suir Estuary		Transitional Transitional		58350 - Suir Estuary at Suir Lodge 58350 - Suir Estuary at Suir Lodge 58350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-03197 21-03198	24/02/2021 24/02/2021		StationDepth StationDepth	m m	Metres Metres	7	OK OK	01	7		2K 2K	01
	Middle Suir Estuary Middle Suir Estuary	10 52 100 0550	Transitional Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-11204 21-11206	15/07/2021	TReC Surface Return		m m m	Metres Metres Metres		OK OK	0.1 0.1	9.1 9.5 8		2K 2K 2K	0.1
	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional Transitional Transitional	TW31002103585005 TW31002103585005 TW31002103585005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-11207 21-15815 21-15816	15/07/2021 15/09/2021 15/09/2021	TReC Bottom Return TReC Surface TReC Bottom	StationDepth StationDepth StationDepth	m m m	Metres Metres	8 7.2 7.2	OK OK	0.1 0.1 0.1	7.2 7.2	0	2K 2K 2K	01 01 01
No. 10 No. 20 No. 20 No. 20 No. 20 No. 20 No. 20 No. 20 No. 20 <td>Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary</td> <td>IE SE 100 0550 IE SE 100 0550 IE SE 100 0550</td> <td>Transitional Transitional</td> <td>TW310021035R5005 TW310021035R5005</td> <td>SR350 - Suir Extuary at Suir Lodee SR350 - Suir Extuary at Suir Lodee</td> <td>PreWfd</td> <td>Waterford City & County Council Waterford City & County Council</td> <td>21-03192 21-08852</td> <td>24/02/2021</td> <td>TReC Surface TReC Surface TReC Bottom</td> <td>ortho-Phosphate (as P) - unspecified ortho-Phosphate (as P) - unspecified</td> <td></td> <td>millierams per litre</td> <td></td> <td></td> <td></td> <td>0.036</td> <td></td> <td>2K 2K 2K</td> <td>0.005</td>	Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodee SR350 - Suir Extuary at Suir Lodee	PreWfd	Waterford City & County Council Waterford City & County Council	21-03192 21-08852	24/02/2021	TReC Surface TReC Surface TReC Bottom	ortho-Phosphate (as P) - unspecified ortho-Phosphate (as P) - unspecified		millierams per litre				0.036		2K 2K 2K	0.005
Dep Los De la Des	Middle Suir Estuary	18_58_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-08858	15/06/2021	TReC Bottom Return	ortho-Phosphate (as P) - unspecified	nen nen nen			OK OK				2K 2K 2K	0.005
A 3 0 a <	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-15821 21-03193 21-15821	15/09/2021 24/02/2021 15/09/2021	TReC Bottom Return TReC Bottom	ortho-Phosphate (as P) - unspecified Salinity(Lab)		nilligræns per litre Q/oo	0.033		0.005	0.033	<0.1	26	0.005
No. 1 0 model No. 1 model	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council	21-11207 21-15821	15/07/2021	TReC Bottom Return	Temperature	Å'c	Dearees centriarade	18.8	CK	e.1	4.9	0	2K 2K	
A L & D M A D M D M D M D M D M D M D M D M D M D M D M	Middle Suir Estuary Middle Suir Estuary	10_52_100_0550			SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council	21-03193 21-03192				oH units mg/l	pH Units milligrams per litre	7.9 1.5	CK CK	2 0.01	7.9 7.9 1.6		26	2 2 0.01
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Ministry Ports Patroneou	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodee	PreWfd PreWfd	Waterford City & County Council	21.08852	15/06/2021	TReC Surface TReC Bottom				2.5 2.3 8.2	OK OK	0.01 0.01 2	16 23 82	6	2K 2K	0.01 0.01 2
No. b More No. b More No. b More No. b Mor	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional Transitional Transitional	TW310021035R5005 TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-11206 21-15816	15/09/2021 15/07/2021 15/09/2021	TRaC Surface TRaC Surface Return TRaC Bottom	Total Oxidised Nitrogen (as N)	orl units mpl mpl	miligrams per litre	2	OK OK	2 0.01 0.02	8.2 2.3 2	0	28. 26. 26.	2 0.01 0.01
A A B A B A B A B A B A B A B A B A B A	Middle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-15820 21-15826 21-15820	15/09/2021 15/09/2021 15/09/2021	TReC Surface Return TReC Bottom TReC Surface Return	pH		pH Units	8.2	OK OK	0.01 2 2	18 8.2 8.1	0	26. 26. 26.	0.01 2 2
Ab Ab Ab Ab Ab	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	16_56_100_0550 16_56_100_0550 16_56_100_0550	Transitional Transitional Transitional	TW310021035R5005 TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-03192 21-03197 21-11206	24/02/2021 24/02/2021 15/07/2021	TRaC Surface TRaC Surface Return TRaC Surface Return	Pheophytin a Pheophytin a Pheophytin a	Aue/I Aue/I Aue/I	Microgrammes per Litre Microgrammes per Litre Microgrammes per Litre	49 41 26	OK OK	0.01 0.01 0.01	4.9 4.1 2.6		2K 2K	
Added Added <t< td=""><td>Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary</td><td>IE SE 100 0550 IE SE 100 0550 IE SE 100 0550</td><td>Transitional Transitional Transitional</td><td>TW310021035R5005 TW310021035R5005</td><td>58350 - Suir Extuary at Suir Lodge 58350 - Suir Extuary at Suir Lodge 58350 - Suir Extuary at Suir Lodge</td><td>PreWfd PreWfd</td><td>Waterford City & County Council Waterford City & County Council Waterford City & County Council</td><td>21-03198 21-08853 21-11204</td><td>24/02/2021 15/06/2021 15/07/2021</td><td>TRaC Bottom Return TRaC Bottom</td><td>Silica (as SiO2) Silica (as SiO2)</td><td></td><td>miligrams per litre miligrams per litre</td><td>3 0.28 <0.1</td><td></td><td>0.1</td><td>3 0.28 0.0**</td><td><0.1</td><td>2K 2K</td><td>0.1</td></t<>	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional Transitional Transitional	TW310021035R5005 TW310021035R5005	58350 - Suir Extuary at Suir Lodge 58350 - Suir Extuary at Suir Lodge 58350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-03198 21-08853 21-11204	24/02/2021 15/06/2021 15/07/2021	TRaC Bottom Return TRaC Bottom	Silica (as SiO2) Silica (as SiO2)		miligrams per litre miligrams per litre	3 0.28 <0.1		0.1	3 0.28 0.0**	<0.1	2K 2K	0.1
Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-11205 21-11205	15/07/2021 15/07/2021	TRaC Bottom TRaC Bottom	Silica (as SiO2) Transparency	mel m	miligrams per litre Metres Metres	0.5	OK OK	0.1	0.12		26	01
Alt	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional Transitional	TW110021035F5005 TW110021035F5005 TW110021035F5005	SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-15825 21-15815 21-15816	15/09/2021 15/09/2021	TRaC Surface TRaC Bottom	Silica (as SiO2) Silica (as SiO2)		miligrams per litre	0.62		0.1		0	26 26	0.1
Date Date Date Date Date Date Date Date	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-03197 21-03198	24/02/2021 24/02/2021	TReC Surface Return TReC Bottom Return	Salinity Salinity	PSU PSU	Practical salinity units Practical salinity units	01	OK OK	01 01 01	0.85	6	2K 2K	01 01 01
Mathem Mathem Mathem Mathem </td <td>Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary</td> <td>IE_SE_100_0550 IE_SE_100_0550 IE_SE_100_0550</td> <td>Transitional Transitional Transitional</td> <td>TW310021035R5005 TW310021035R5005 TW310021035R5005</td> <td>SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge</td> <td>PreWfd PreWfd PreWfd</td> <td>Waterford City & County Council Waterford City & County Council Waterford City & County Council</td> <td>21-08852 21-08858 21-11204</td> <td>15/06/2021 15/06/2021 15/07/2021</td> <td>TRaC Surface TRaC Bottom Return TRaC Surface</td> <td>Salinity Salinity Salinity</td> <td>PSU PSU PSU</td> <td>Practical salinity units Practical salinity units Practical salinity units</td> <td>0.4</td> <td>CK CK</td> <td>01 01 01</td> <td>0.7 0.4 1.2</td> <td></td> <td>2K 2K</td> <td>0.1 0.1 0.1</td>	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550 IE_SE_100_0550 IE_SE_100_0550	Transitional Transitional Transitional	TW310021035R5005 TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-08852 21-08858 21-11204	15/06/2021 15/06/2021 15/07/2021	TRaC Surface TRaC Bottom Return TRaC Surface	Salinity Salinity Salinity	PSU PSU PSU	Practical salinity units Practical salinity units Practical salinity units	0.4	CK CK	01 01 01	0.7 0.4 1.2		2K 2K	0.1 0.1 0.1
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Adjudging Facily Reductions	IE_SE_100_0550	Transitional	TW310021035R5005	\$2,350 - Soir Extenses at Soir Lorles		Waterford City 8, County Council	21-11207 21-15821 21-03198	15/07/2021 15/09/2021 24/02/2021	TReC Bottom Return TReC Bottom Return TReC Bottom Return	Selinity	PSU m 0/00	Practical salinity units Metres G/oo	0.6	OK OK	01	0.8 8.1 0.05	<0.1	2K 2K	01 01 03
Sch Land	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary	IE_SE_100_0550	Transitional	TW31002103585005 TW31002103585005 TW31002103585005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-08858	15/06/2021 15/06/2021 15/07/2021	TRaC Bottom TRaC Bottom Return	Salinity(Lab)	0/00 0/00	0/00 0/00	07	CK CK	01	0.7		26	0.1
Data Data Data Data Data Data Data Data	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550	Transitional	TW11002103585005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City 8, County Council	11.11204	10.000	That Indone Balance	Salinite(Lab)	0/00 Å*C		0.6 9.5	ak ak	0.1	15 06 95		ж	01
displace Signed Signe	Middle Suir Estuary Middle Suir Estuary				SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge		Waterford City & County Council Waterford City & County Council	21-15815 21-15816	15/09/2021	TReC Surface TReC Bottom	Salinity(Lab)	0/co 0/co			CK CK	01 01	0.6 1.5 1.6		26 26 26	01 01 01
Mathematical Value Marcella Nature Mathematical		IE_SE_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council	21-08853 21-08857	15/06/2021	TReC Bottom	Temperature	Arc Arc	Degrees centrigrade	18.4	OK OK		9.5 18.4 18.6	0	26. 26. 26.	
Mathematical Value Mark Name Name <td>Middle Suir Estuary Middle Suir Estuary</td> <td></td> <td>Transitional Transitional Transitional</td> <td>TW31002103585005 TW31002103585005 TW31002103585005</td> <td>SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge</td> <td>PreWfd</td> <td>Waterford City & County Council Waterford City & County Council Waterford City & County Council</td> <td>21-11204 21-11206 21-03192</td> <td>15/07/2021 15/07/2021 24/02/2021</td> <td>TRaC Surface TRaC Surface Return TRaC Surface</td> <td>Temperature Temperature Silica (as SiO2)</td> <td>A'c A'c mel</td> <td>Degrees centrigrade Degrees centrigrade milligrams per litre</td> <td>3</td> <td>CK CK</td> <td>01</td> <td>18.8 18.9 3</td> <td></td> <td>26</td> <td>0.1</td>	Middle Suir Estuary Middle Suir Estuary		Transitional Transitional Transitional	TW31002103585005 TW31002103585005 TW31002103585005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-11204 21-11206 21-03192	15/07/2021 15/07/2021 24/02/2021	TRaC Surface TRaC Surface Return TRaC Surface	Temperature Temperature Silica (as SiO2)	A'c A'c mel	Degrees centrigrade Degrees centrigrade milligrams per litre	3	CK CK	01	18.8 18.9 3		26	0.1
Add with a bit of a bit o	Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary Middle Suir Estuary		Transitional Transitional	TW310021035R5005	58350 - Suir Estuary at Suir Lodge 58350 - Suir Estuary at Suir Lodge 58350 - Suir Estuary at Suir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-08852 21-15821	15/06/2021 15/09/2021	TReC Surface TReC Bottom Return	Silica (as SiO2) Silica (as SiO2) Total Oxidiaed Nitroeen (as N)		milligrams per litre milligrams per litre	0.88					2K	0.1
Add Auge	Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary Middle Suir Extuary	IE SE 100 0550		TW310021035R5005 TW310021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-03198 21-03192	24/02/2021 24/02/2021	TReC Bottom Return TReC Surface	Total Oxidised Nitrogen (as N) StationDepth	mel m	milligrams per litre Metres	15	ak ak	0.01 0.01 0.1	10 15 7		ж	0.01
Alt also been been been been been been been bee	Middle Suir Estuary Middle Suir Estuary	IE 5E 100 0550 IE 5E 100 0550	Transitional Transitional			PreWid	Waterford City & County Council Waterford City & County Council	21-08857 21-08858 21-08858	24/02/2021 15/06/2021 15/06/2021	TReC Bottom TReC Surface Return TReC Bottom Return	Total Oxidised Nitrogen (as N) Total Oxidised Nitrogen (as N)		milligrams per litre		OK OK		25 25	6	2K 2K	0.1 0.01 0.01
Cond Cond <t< td=""><td>Middle Sair Unturry Middle Sair Unturry</td><td>IE 52 100 0550 IE 52 100 0550</td><td>Transitional Transitional Transitional</td><td>TW310021035R5005 TW310021035R5005 TW310021035R5005</td><td>SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodge</td><td></td><td></td><td>21-11205</td><td>15/07/2021</td><td>TReC Bottom</td><td>Total Oxidised Nitrogen (as N)</td><td>(here)</td><td>milligrams per litre</td><td>2.2</td><td>LOK .</td><td>0.01</td><td>2.1</td><td>4</td><td></td><td>0.01</td></t<>	Middle Sair Unturry Middle Sair Unturry	IE 52 100 0550 IE 52 100 0550	Transitional Transitional Transitional	TW310021035R5005 TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodee SR350 - Suir Estuary at Suir Lodge			21-11205	15/07/2021	TReC Bottom	Total Oxidised Nitrogen (as N)	(here)	milligrams per litre	2.2	LOK .	0.01	2.1	4		0.01
Mail Mark Mark Mark Mark Mark Mark Mark Mark	Médék kult Ethany Médék Kult Ethany	IE 52 100 0550 IE 52 100 0550	Transitional Transitional Transitional Transitional Transitional	TW110021035R5005 TW110021035R5005 TW110021035R5005 TW110021035R5005 TW110021035R5005	SR350 - Soir Extuary at Soir Lodge SR350 - Soir Extuary at Soir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-03193	24/02/2021	TRaC Bottom	Total Oxidised Nitrogen (as N) Transparency	m	miligrams per litre Metres	2.1	OK OK	0.01	2.1 0.5		2K 2K 2K	0.01
Observed Observed Operation	Médék Suiz Eduary Médék Suiz Eduary	IF SE 100 0550 IF SE 100 0550	Transitional Transitional Transitional Transitional Transitional Transitional Transitional	TW1100210385005 TW1100210385005 TW1100210385005 TW1100210385005 TW1100210385005 TW1100210385005 TW1100210385005 TW11002103855005	SB350 - Sair Extury at Suir Lodge SB350 - Suir Extury at Suir Lodge SB350 - Suir Extury at Suir Lodge SB350 - Suir Extury at Suir Lodge	PreWid PreWid PreWid PreWid PreWid	Waterford City & County Council Waterford City & County Council Waterford City & County Council Waterford City & County Council Waterford City & County Council	21-03193 21-08853 21-11206 21-03192	24/02/2021 15/06/2021 15/07/2021 24/02/2021	TRaC Bottom TRaC Bottom TRaC Surface Return TRaC Surface	Transparency Transparency Transparency	m m m Årc	Metres Metres		0X 0X 0X 0X	0.01	2.1 0.5 0.5 9.5	6 6 6 8	2K 2K 2K 2K 3K	0.01
A bit Mark B bit Mark Proceeding Product Mark	Médék Suiz Eduary Médék Suiz Eduary	E 52 100 0150 E 52 100 0150	Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional	TW1100210358505 TW3100210358505 TW3100210358505 TW3100210358505 TW3100210358505 TW3100210358505 TW1100210358505 TW1100210358505 TW3100210358505	52200 - Sair Estauru at Sair Lodge 52200 - Sair Estauru at Sair Lodge 52200 - Sair Estauru at Sair Lodge 52200 - Sair Estauru at Sair Lodge 5200 - Sair Estauru at Sair Lodge	PreWid PreWid PreWid PreWid PreWid PreWid PreWid	Waterford City & County Council Waterford City & County Council	21-03193 21-08853 21-11206 21-03192 21-03192 21-03193 21-08852	24/02/2021 15/06/2021 15/07/2021 24/02/2021 24/02/2021	TRaC Bottom TRaC Bottom TRaC Surface Return TRaC Surface TRaC Bottom	Transparency Transparency Transparency Temperature Temperature	m m M Årc Årc Årc	Metres Metres Degrees centrigrade Degrees centrigrade	9.5 9.5	OK	0.00	2.1 0.5 0.5 9.5 9.5 18.4	6 6 6 6 6 6	2K 2K 2K 2K 2K 2K 2K 2K 2K	0.01
Optimize R # # 0.000 Section Product Section Product Section Se	Middle Suir Fauery Middle Suir Fauery	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional	TW110210355005	2020 - Sur theore at loci today 2020 - Sur theore at loci today	PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd PreWifd	Waterford City & County Council Waterford City & County Council	21-03193 21-08853 21-11206 21-03192 21-03192 21-03193 21-08852 21-15836 21-08853 21-11204	24/02/2021 15/05/2021 15/07/2021 24/02/2021 25/05/2021 15/05/2021 15/05/2021 15/05/2021 15/05/2021	TRAC Bottom TRAC Sortom TRAC Sortace Return TRAC Sortace TRAC Bottom TRAC Sortace TRAC Sortace TRAC Sortace TRAC Sortace TRAC Sortace	Transparency Transparency Transparency Temperature Temperature Temperature Temperature Temperature Temperature Total Occidend Nitrogen (as N)	Arc me/l	Metres Metres Degrees centrigrade Degrees centrigrade Degrees centrigrade Degrees centrigrade miligrams per litre	95 95 184 17.7 2 2.5	8 8 8	0.00	2.1 0.5 0.5 9.5 18.4 17.7 2 2.5		26 26 26 26 26 26 26 26 26 26	0.01
Adde Schwarz 15 20 0000 Transland	Metho Sor Davy Metho Sor Davy	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Transitional Transitional	TW110210355005	51205 - Sur Tohury at Nur Ledge 51205 - Sur Tohury at Nur Ledge	PreWid Pr	Waterierd City & County Council Waterierd City & County Council	21-01193 21-01933 21-0192 21-01192 21-01192 21-01193 21-01193 21-01193 21-01193 21-01193 21-01193 21-1194 21-01193 21-0193 21-019	24/02/2021 15/06/2021 15/07/2021 24/02/2021 24/02/2021 15/06/2021 15/06/2021 15/06/2021 15/06/2021 15/07/2022 15/06/2021	TRAC Bottom TRAC Sorface Return TRAC Sorface Return TRAC Sorface TRAC Bottom TRAC Sorface TRAC Bottom TRAC Sorface TRAC Sorface TRAC Sorface TRAC Sorface TRAC Sorface TRAC Sorface	Transparency Transparency Temperature Temperature Temperature Temperature Temperature Temperature Total Oxidane Nitrogen (as N) Transparency Transparency	Arc me/l	Metres Metres Degrees centrigrade Degrees centrigrade Degrees centrigrade Degrees centrigrade miligrams per litre	25 25 184 177 2 25 05 05	8 8 8	0.0	21 05 05 95 95 184 177 2 25 05 05 05		26 27 28 28 28 28 28 28 28 28 28 28	0.01
International and a second sec	And a strong	$\begin{array}{c} 1 \\ x \\ y \\ z \\ z$	Transitional Transitional		3100 - Ser Taury at Var tode 2000 - Ser Taury at Var tode	PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid PreWid	Waterbork CPL & Goute Council Waterbork CPL & Goute Council	21-03193 21-03853 21-03195 21-03192 21-03195 21-03852 21-03852 21-03852 21-138555 21-138555 21-138555 21-138555 21-138555 21-138555	24/02/2021 15/05/2021 15/07/2021 24/02/2021 24/02/2021 15/06/2021 15/06/2021 15/06/2021 15/06/2021 15/09/2021 15/09/2021 15/09/2021 24/02/2021 24/02/2021	TRAC Bottom TRAC Services TRAC Services	Transparong Transparong Transparong Tengerature Tengerature Tengerature Tengerature Tengerature Tengerature Tengerature Tengerature Tengerang Tengerong Tengerong Tengerong Tengerong	Arc meß m m m m m m m m m	Meters Meters Meters Degress contrigrade Degress contrigrade Degress contrigrade Degress contrigrade Degress contrigrade miligrams per litre Meters Meters Meters Meters Meters miligrams per litre	95 95 184 177 2 25 05 05 05 05 05 05 05 0.043		0.01	0.047		E S S S S S S S S S S S S S	0.01 0.01

			1												r		
Middle Suir Estuary	IE_SE_200_0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council	21-11206	15/07/2021 TReC Surface Return		(ham	milligrams per litre	0.013	OK	0.03	0.013		OK	0.01
Middle Suir Estuary	IE_SE_200_0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council	21-03197	24/02/2021 TReC Surface Return	Chlorophyli a (fluorescence)	Aus/I	Microgrammes per Litre	2	CK	0.01	2		OK	0.01
Middle Suir Estuary	E_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-08852	15/05/2021 TRaC Surface	Chlorophyll a (fluorescence)	App/1	Microgrammes per Litre	3.9	OK	0.01	19		OK	0.01
Middle Suir Estuary	IE_SE_200_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council	21-11206	15/07/2021 TReC Surface Return	Chlorophyli a (Fluorescence)	Aus/I	Microgrammes per Litre	25	CK	0.03	25		OK	0.01
Middle Suir Estuary	IE SE 100 0550 Transitional	TW310021035R5005	SR350 - Soir Extuary at Suir Lodge	PreWfd	Waterford City & County Council	21-03195	24/02/2021 TReC Bottom Return	Depth		Metres	NM	CK				NM	
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-08857	15/05/2021 TRaC Surface Return	Depth	m	Metres	0	CK		0		OK	
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Soir Extuary at Suir Lodge	PreWfd	Waterford City & County Council	21-11204	15/07/2021 TReC Surface	Depth		Metres	0.3	CK		0.3		OK	
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodes	PreWfd	Waterford City & County Council	21-15820	15/09/2021 TReC Surface Return	Depth	m	Metres	0	OK		0		OK	
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-03197	24/02/2021 TReC Surface Return	Dissolved Oxygen	% Saturation	Percentage Saturation	90	CK	1	90		OK	1
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodes	PreWfd	Waterford City & County Council	21-08857	15/06/2021 TReC Surface Return	Dissolved Oxygen	% Saturation	Percentage Saturation	309	OK	1	109		OK	1
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Loder	PreWfd	Waterford City & County Council	21-15821	15/09/2021 TReC Bottom Return	Dissolved Oxygen	% Saturation	Percentage Saturation	82	CK	1	82		OK	1
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-03197	24/02/2021 TReC Surface Return	ortho-Phosphate (as P) - unspecified	0.gm	milligrams per litre	0.037	CK	0.005	0.037		OK	0.005
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Loder	PreWfd	Waterford City & County Council	21-11206	15/07/2021 TReC Surface Return	ortho-Phosphate (as P) - unspecified	0.em	millerams per litre	0.014	CK	0.005	0.014		OK	0.005
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-03197	24/02/2021 TReC Surface Return	pH	pH units	pH Units	7.9	CK	2	7.9		OK	2
Middle Suir Estuary	E_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-03195	24/02/2021 TRaC Bottom Return	pH	pH units	pH Units	7.9	CK	2	7.9		OK	2
Middle Suir Estuary	IE SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodee	PreWfd	Waterford City & County Council	21-08857	15/06/2021 TReC Surface Return	ha	oH units	off Units	8.5	CK	2	8.5		OK	2
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-08858	15/06/2021 TReC Bottom Return	pH	pH units	pH Units	8.5	CK	2	8.5		OK	2
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodee	PreWfd	Waterford City & County Council	21-08857	15/06/2021 TReC Surface Return	Pheophytin a	Aun/I	Microerammes per Litre	31	CK	0.01	11		OK	0.01
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodee	PreWfd	Waterford City & County Council	21-03192	24/02/2021 TReC Surface	Salinity	PSU	Practical salinity units	0.1	CK	0.1	0.1		OK	0.1
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council	21-03193	24/02/2021 TReC Bottom	Salinity	PSU	Practical salinity units	0.1	CK	0.1	0.1		QK	0.1
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council	21-08853	15/06/2021 TReC Bottom	Salinity	PSU	Practical salinity units	0.8	CK	0.1	0.8		OK	0.1
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SEISO - Sair Extrany at Sair Lodes	PretWird	Waterford City & County Council	21,11206	15/07/2021 TBaC Surface Beturn	Salinity	291	Practical salinity units	0.7	CK .	01	07		OK	01
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council	21-15815	15/09/2021 TReC Surface	Salinity	PSU	Practical salinity units	15	CK	0.1	1.5		QK	0.1
Middle Sair Estuary	ir sr 100 0550 Transitional	TW11002103585005	SR350 - Suir Estuary at Suir Lodee	Drei Wird	Waterford City & County Council	21,15816	15/09/2021 TBaC Bottom	Salinity	691	Practical salinity units	16	CIK .	01	16		OK	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SR350 - Suir Estuary at Suir Lodee	DeelWind	Waterford City & County Council	21.03192	34/02/2021 TBaC Surface	Salinite(Lab)	0/00	0/nn	c0.1	CIK .	01	0.05	(0.1	OK	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW11002103585005	SR350 - Suir Estuary at Suir Lodee	Dre/Wird	Waterford City & County Council	21.03197	34/02/2021 TBaC Surface Beturn	Salinite(Lab)	0/00	0/oo	c0.1	CK	01	0.05	(0.1	OK	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SETSO - Shir Estuary at Skir Lories	DreWind	Waterford City & County Council	21,08852	15/06/2021 TBaC Surface	Salinite(Lab)	0/m	0/oo	0.7	CK .	01	07		or	0.1
Middle Sair Estuary	IF SF 100 0550 Transitional	TW11002103585005	SR350 - Suir Estuary at Suir Lodee	Dre/Wird	Waterford City & County Council	21-11204	15/07/2021 TReC Surface	Salinite(Lab)	0/00	0/oo	11	CK	01	11		OK	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SR350 - Suir Estuary at Suir Lodee	DreWind	Waterford City & County Council	21-15820	15/09/2021 TReC Surface Return	Salinite(Lab)	0/m	0/oo	3.9	CK .	01	19		or	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SETSO - Shir Estuary at Skir Lories	DreWind	Waterford City & County Council	21,03191	34/02/2021 TBaC Bottom	Silica (as S(D2)	mell	millierama ner litre	3	CK .	01			or	01
Middle Suir Estuary	E SE 100 0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	Dre/Wird	Waterford City & County Council	21-08857	15/06/2021 TReC Surface Return	Silica (as SiO2)	mell	milligrams nor litre	0.19	CK	0.1	0.19		OK	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SETSO - Shir Estuary at Skir Lories	DreWind	Waterford City & County Council	21,08858	15/06/2021 TBaC Bottom Behum	Silica (as S(D2)	mell	millierama per litre	0.2	CK .	01	0.2		or	0.1
Middle Suir Estuary	IF SF 100 0550 Transitional	TAULOCITOTICS	\$2350 - Sair Estuary at Sair Lodes	DeelWind	Waterford City & County Council	21,11207	String (2021) The Chattern Robust	Silica (as S(02)		millierama ner litre	0.11	CH .	01	0.11		OK.	
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SETSO - Soir Extensive at Soir Lories	PreWird	Waterford City & County Council	21.08853	15/06/2021 TBaC Bottom	SationDepth	m	Metres	91	ax	01	91		or	01
Middle Suir Estuary	IT IT NO OTTO Transitional	TACING TRANSPORT	SR350 - Suir Estuary at Suir Lodee	DreWind	Waterford City & County Council	33.08887	15/06/2021 TBaC Surface Beturn	SationDepth	-	Matan	7.1	CH .	01	71		CVK.	0.1
Middle Suir Estuary	IF SF 100 0550 Transitional	TW11002103585005	SETSO - Sair Extrany at Sair Lorian	Decidified	Waterford City & County Council	11 08858	15/05/2021 TBaC Bottom Beturn	Satisconth	-	Mater	7.1	~	01	7.1		OK.	01
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SETSO - Soir Extensive at Soir Lories	PreWird	Waterford City & County Council	21,11205	15/07/2021 TBaC Bottom	SationDepth	m	Metres	95	ax	01	25		or	01
Models Suir Estuary	E E 100 0550 Transitional	74/1100/10/16/000	SEISO - Suir Extrany at Suir Lodge	Pretting	Waterford City & County Council	11 15930		SationOepth	-	Meters	81	CK.	0.1			OK .	0.1
Middle Suir Estuary	IF SF 100 0550 Transitional	74/1100/10/16/16/00	SETSO - Sair Extrany at Sair Lorian	Decidified	Waterford City & County Council	11 08858	12 (20 / 2021) The Chattern Return	Temperature	ler.	Deserves contributed a	18.6	~				OK.	
Middle Suir Estuary	IF SF 100 0550 Transitional	TW31002103585005	SETSO - Soir Extensive at Soir Lories	PreWird	Waterford City & County Council	21-11205	15/07/2021 TBaC Bottom	Temperature	A'r	Deerses centrierade	185	CIK.		18.5		or	
Middle Tols Estuary	E E 100 0550 Transitional	74/1100/10/16/000	18390 - Juli Estuary at Juli Lodge	DreWind	Waterford City & County Council	11 18918	15/00/2021 TRac soliton	Temperature	Arc.	Degrees centrigrade	17.8	CK.		17.0		OK .	
Middle Suir Estuary	IF SF 100 0550 Transitional	TW110021035F5005	SR350 - Suir Estuary at Suir Looke	PreWite	Waterford City & County Council Waterford City & County Council	21-15820	15/09/2021 TReC Surface Return	Temperature	átr.	Dearees centriarade	18.1	CK.		18.1		OK.	
Middle Suir Estuary	If St 100 0550 Transitional	TW31002103585005	SR350 - Suir Estuary at Suir Lodge	DreWind	Waterford City & County Council	21-11207	15/07/2021 TReC Bottom Return	Total Oxidised Nitroeen (as N)	mell	millerens ner lêre	22	CK.	0.03	22			0.01
Middle Suir Eituary	IE_SE_100_0550 Transitional	TW310021035K5005	SE350 - Solr Estuary at Suir Lodge	PreWit	Waterford City & Country Council	21-11207	15/09/2021 TRac Bottom Return	Total Oxidiaed Nitrogen (as N)	mg/i	miligrams per litre	12	- MA	0.01	11		Wh.	0.01
Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 Transitional	TW110021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWid	Waterford City & County Council Waterford City & County Council	21-15821	15/09/2021 TReC Bottom Return 34/02/2021 TBeC Surface	Total Oxidised Nitrogen (as Ni Transparency	mini .	milligrams per litre Metres	18	CA.	0.01	18		UK.	0.01
Middle Suir Eituary	IF SF 100 0550 Transitional	TW310021035K5005	SE350 - Solr Estuary at Suir Lodge	PreWit	Waterford City & Country Council	21-03192	24/02/2021 TRac Surface Baturn	Transparency	m	Method	05	UK		0.5		UK.	-
	IE SE 100 0550 Transitional	TW110021035R5005	SR350 - Suir Extuary at Suir Lodge SR350 - Suir Extuary at Suir Lodge	PreWid	Waterford City & County Council	21-03197	24/02/2021 TReC Surface Return 24/02/2021 TReC Bottom Beturn	Transparency	m	Metres	05	UK.		0.5		UK.	-
Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 Transitional	TW310021035R5005	58350 - Suir Extuary at Suir Loder 58350 - Suir Extuary at Suir Loder	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	21-03198	24/02/2021 TReC Bottom Return 15/06/2021 TBeC Surface Beturn	Transparency	m	Metres Metres	0.5	CK		0.5		OK	—
Middle Suir Estuary	IE_SE_100_0550 Transitional					21-08857			m	Metres	0.3	UK.		0.3		UK.	
		TW310021035R5005	SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council		15/06/2021 TReC Bottom Return	Transparency	m			CK		0.3		OK	<u> </u>
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Extuary at Suir Lodge	PreWfd	Waterford City & County Council	21-11204	15/07/2021 TReC Surface	Transparency	m	Metres	0.5	CK		0.5		OK	—
Middle Suir Estuary	IE_SE_100_0550 Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	21-11207	15/07/2021 TReC Bottom Return	Transparency	m	Metres	0.5	CK		0.5	1	LOK.	

D0145 Mooncoin Ambient Points

Ambient Monitoring Point	Irish Grid	EPA Feature	Receiving W		WFD Status		
from WWDL (or as agreed with EPA)	Reference	Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	
TW31002103SR5003	E248789 N115586		No	No	No	No	Poor
TW31002103SR5005	E251740 N112535		No	No	No	No	Poor

Ambient Impact Assessment Table

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual	Downstream Monitoring Point Location	Downstream Monitoring Point Annual	EQS (95% Ile)	%EQS
	Location	Mean	Location	Mean	ne)	
cBOD mg/l	TW31002103SR5003	1.55	TW31002103SR5005	No results		
Temperature oC	TW31002103SR5003	16.1	TW31002103SR5005	16.1		
Ammonia (as N) mg/l	TW31002103SR5003	0.030	TW31002103SR5005	0.035		8%
pH pH units	TW31002103SR5003	8.3	TW31002103SR5005	8.2		
Suspended Solids mg/l	TW31002103SR5003	No results	TW31002103SR5005	No results		
Total Phosphorus (as P) mg/l	TW31002103SR5003	No results	TW31002103SR5005	No results		
Visual inspection	TW31002103SR5003		TW31002103SR5005			
Total Oxidised Nitrogen (as N) mg/l	TW31002103SR5003	1.98	TW31002103SR5005	2.03		