Annual Environmental Report 2021



Fiddown

D0528-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0528-01, Fiddown, 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)

Fiddown WWTP with a Plant Capacity PE of 608, 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
TPEFF1500D0528SW001	Fiddown WWTP	Treated	Non-Compliant	Ammonia-Total (as N) mg/l BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l ortho-Phosphate (as P) - unspecified mg/l Suspended Solids mg/l Total Nitrogen mg/l

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 FIDDOWN WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - FIDDOWN 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
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	6	365	254
Ammonia-Total (as N) mg/l	6	86	70
Total Nitrogen mg/l	6	152	99
Total Phosphorus (as P) mg/l	6	20	12
Suspended Solids mg/l	6	428	246
COD-Cr mg/l	6	1000	749
pH units	6	8.52	8.05
Hydraulic Capacity	N/A	473	76

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 - TPEFF1500D0528SW001

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	6	6	6	508	Fail
Total Nitrogen mg/l	40	48	N/A	6	6	5	68	Fail
Suspended Solids mg/l	35	87.5	N/A	6	6	5	139	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	6	6	178	Fail
pH units	9.00	9.00	N/A	6	N/A	N/A	7.44	Pass
ortho-Phosphate (as P) - unspecified mg/l	5.00	6.00	N/A	6	4	4	5.83	Fail
Ammonia-Total (as N) mg/l	5.00	6.00	N/A	6	6	6	49	Fail

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 Phosphorus (as P) mg/l	N/A	N/A	N/A	6	N/A	N/A	9.10	

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):

Primary treatment only. Major upgrade required as per previous AERs.

Significance of Results:

Plant non compliant and in need of major investment to pump sewage to Piltown

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1500D0528SW001

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

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

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - FIDDOWN WWTP

2.1.4.1 Treatment Efficiency Report - Fiddown 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	15857	11415	28	
ТР	257	204	21	
TN	2099	1537	27	
SS	5204	3109	40	
cBOD	5373	3998	26	

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

2.1.4.2 Treatment Capacity Report Summary - Fiddown 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.

Fiddown WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	411
DWF to the Treatment Plant (m³/day)	137
Current Hydraulic Loading - annual max (m³/day)	473
Average Hydraulic loading to the Treatment Plant (m³/day)	76
Organic Capacity (PE) - As Constructed	608
Organic Capacity (PE) - Collected Load (peak week)Note1	423
Organic Capacity (PE) - Remaining	185
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 - FIDDOWN 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	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)
Breach of ELV	WWTP upgrade required to meet ELV	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	1
Number of Incidents reported to the EPA via EDEN in 2021	1
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	Irish Grid Ref. (outfall)	Included in Schedule of the WWDL	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	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
D0528-SIP:01	Upgrade Fiddown WWTP to provide secondary treatment with nutrient removal	С	31/12/2019	Yes	Not Started		Capital works not funded in RC3. Capital works funding post 2024 will be contingent on the project being included in the 2025-2029 investment period.

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 Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improve	ments 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:

Date: 07/04/2022

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

Company Comp	D0528 Fiddown upstrea	WaterbodyCode Waterbodytype MonitorineStationCode	Mantentrofinitaritary	Manhorathana Manharathana and dank	Transferred Transferred	Francishfuther	December Street	December 1 to 10" house Confe	December 1 to 100 to man	Describ.	Testificación II	- Affaire Lieux Officialistic	. Daniel Sand	Taxana Taxas Taxas da	Description defining	Demonth lank
	Middle Suir Estuary	E_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council	21-15818 15/09/20	1 TRaC Depth Composite	Ammonia-Total (as N)	mg/l		0.029	C C	K 0	01 0.03	9	OK	0.01
Column	Middle Suir Estuary	IE_SE_100_0550 Transitional TW31002103595001		PreWfd Waterford City & County Council PreWfd Waterford City & County Council				mg/l me/l		2.4		K K	1 4	4	OK OK	1
Column	Middle Suir Estuary	IE_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council	21-03195 24/02/20	1 TRaC Depth Composite	Ammonia-Total (as N)		miligrams per litre	0.051		к о	01 0.05	1	OK	0.01
Column		IE_SE_100_0550 Transitional TW31002103585001			21-15818 15/09/20	1 TRaC Depth Composite	BOD - 5 days (Total)	mg/l		3.7	-	K U	1 3	7	OK	0.01
Column	Middle Suir Estuary	IE_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fiddown Br. SR330 - Suir Estuary at Eiddown Br	PreWfd Waterford City & County Council Designed Waterford City & County Council	21-15818 15/09/20	1 TRaC Depth Composite	Chlorophylia (Fluorescence)	Aug/t	Microgrammes per Litre	51	- 0	K O	01 1	1	OK OK	0.01
Column	Middle Suir Estuary	IE_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council	21-11202 15/07/20	1 TRaC Depth Composite	Depth	m		5.4		K	5	4	OK	
	Middle Suir Extuary Middle Suir Extuary	IE_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fiddown Br. SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council PreWfd Waterford City & County Council	21-03195 24/02/20	1 TRaC Depth Composite	Chlorophyll a (Fluorescence)		Microgrammes per Litre	2.8	- 0	K 0	01 2	2 8	OK OK	0.01
Column	Middle Suir Estuary	IE_SE_100_0550 Transitional TW31002103595001	SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council	21-08855 15/06/20	1 TRaC Depth Composite	Chlorophyll a (Fluorescence)	Aug/I	Microgrammes per Litre	13		к о	01	3	OK	0.01
Column	Middle Suir Estuary	IE_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fieldown Br.	PreWfd Waterford City & County Council PreWfd Waterford City & County Council	21-08855 15/05/20	1 TRaC Depth Composite	ortho-Phosphate (as P) - unspecified		miligrams per litre	0.014	-	K 0.0	05 0.00	4	OK	0.005
Column	Middle Suir Estuary Middle Suir Estuary	IE SE 100 0550 Transitional TW31002103585001	SR330 - Suir Estuary at Fiddown Br. SR330 - Suir Estuary at Eiddown Br	PreWfd Waterford City & County Council Designed Waterford City & County Council	21-11202 15/07/20	1 TRaC Depth Composite	Pheophytin a Dunth	Aug/t		2.6	<0.01	K O	0.00	5 <0.01	OK OK	0.01
Column C		E_SE_100_0550 Transitional TW31002103585001			21-15818 15/09/20	1 TRaC Depth Composite		// // // // // // // // // // // // //	miligrams per litre	0.017		K 0.0	05 0.0	7	OK	0.005
March Marc	Middle Suir Extuary Middle Suir Extuary	IE_SE_100_0550 Transitional TW310021035R5001 IE_SE_100_0550 Transitional TW310021035R5001	SR330 - Suir Estuary at Fiddown Br. SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council PreWfd Waterford City & County Council	21-11202 15/07/20 21-03195 24/02/20		pili Pheophytin a	pH units Aug/t	pH Units Microgrammes per Litre	6.1	- 0	K 0	2 B	1	OK OK	0.01
March 1	Middle Suir Estuary	IE_SE_100_0550 Transitional TW310021035R5001			21-03195 24/02/20	1 TRaC Depth Composite	Salinity(Lab)	0/00	0/00		<0.1 0	K	0.1 0.0	5 <0.1	OK	0.1
March Marc	Middle Suir Estuary	IF SF 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-11202 15/07/20	1 TRaC Death Composite	Dissolved Oxygen	% Saturation	Percentage Saturation	109	- 6	×	1 1	0	OK	0.1
March Marc	Middle Suir Extuary Middle Suir Extuary	IE SE 100 0550 Transitional TW31002103595001	SR330 - Suir Estuary at Fiddown Br. SR330 - Suir Estuary at Eiddown Br		21-15818 15/09/20	1 TRaC Death Composite	Dissolved Oxygen Salinity	% Saturation		107		K.	1 1	2	OK OK	- 01
March Marc	Middle Suir Extuary	E SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-11202 15/07/20	1 TRaC Depth Composite	Salinby	PSU	Practical salinity units	0.2		K	21 0	2	OK	0.1
March Marc	Middle Suir Extuary	IF SF 100 0550 Transitional TW31002103595001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-15818 15/09/20 21-03195 24/02/20	1 TRaC Death Composite 1 TRaC Death Composite	ortho-Phosphate (as P) - unspecified	me/i		0.04		K 0.0	05 0.0	4	OK OK	0.025
March Marc		IE SE 100 0550 Transitional TW31002103585001			21-11202 15/07/20	1 TRaC Death Composite	Salinity(Lab)	0/00	0/00	0.1	-	K	2.1 0	1	OK	0.1
March Marc	Middle Suir Estuary	E SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-11202 15/07/20	1 TRaC Depth Composite	TOC (as NPOC)	me/i	milierams per litre	2.6	- 6	×	2 2	6	OK	2
March Marc	Middle Suir Estuary	IF SF 100 0550 Transitional TW31002103595001	58330 - Suir Estuary at Eirldown Br		21 11 202 17 027 (20	1 TRef Death Comments	Filtre (as FIGS)	oli units		8.6	e0.1	K.	2 8	5 (0.1	OK OK	2
March Marc			58330 - Suir Estuary at Fiddown Br.		21-08855 15/05/20	1 TRaC Death Composite	Transparency	m .	Metres	0.5		×		5	OK	
March Marc	Middle Suir Extuary	IE SE 100 0550 Transitional TW31002103595001	SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council	21-03195 24/02/20	11 TRaC Depth Composite	Salinby	me/i PSU	Practical salinity units	0.97		K K	0.1 0.1	1	OK OK	0.1
A	Middle Suir Extuary Middle Suir Extuary	if St 100 0550 Transitional TW31002103585001	58330 - Suir Estuary at Eirldown Br	Profitfd Waterford City & County Council Profitfd Waterford City & County Council	21-03195 24/02/20	TRuC Denith Composite	StationDeath StationDeath	m m	Metres	3	- 1		2.1	4	OK OK	0.1
March Marc	Middle Suir Extuary	IF SF 100 0550 Transitional TW31002103595001	SR330 - Suir Estuary at Fiddown Br.	PreWid Waterford City & County Council	21-03195 24/02/20	1 TRaC Deoth Composite	TOC (as NPOC)	me/i	millerama per litre	7		K	2	7	OK	2
A	Middle Suir Extuary Middle Suir Extuary	IE SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWid Waterford City & County Council PreWid Waterford City & County Council	21-08855 15/06/20	11 TRaC Depth Composite	Silica (as SiO2)	me/i	millerams per litre	2.5	<0.1 C	K.	21 2	5 0.1	OK OK	0.1
March Marc	Middle Suir Estuary	E SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-08855 15/06/20	1 TRaC Depth Composite	Total Oxidised Nitropen (as Ni	meA	millerams per litre	2.5	;	к о	01 2	5	OK	0.01
	Middle Suir Extuary	IF SF 100 0550 Transitional TW31002103595001	SR330 - Suir Extuary at Fiddown Br.	Protect Waterford City & County Council Protect Waterford City & County Council	21 11 202 17 027 (20	1 TRef Death Comments	T	men m	Metres	59	<0.5			5 -0.5	OK OK	0.5
				Profitfd Waterford City & County Council Profitfd Waterford City & County Council	21-03195 24/02/20	TRaC Death Composite	Temperature Temperature	Arc Arc	Degrees centrigrade	9.4	- 1			7	OK OK	_
March Marc	Middle Suir Extuary	IE SE 100 0550 Transitional TW31002103595001	SR330 - Suir Estuary at Fiddown Br.	PreWfd Waterford City & County Council				me/l	millerams per litre	3		K	2	1	OK	2
The column 1	Middle Suir Extuary	E SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-03195 24/02/20	1 TRaC Depth Composite	Total Oxidised Nitropen (as N)	me/i	millerams per litre millerams per litre	12		K 0	01 1	4	OK OK	0.01
The column 1	Middle Suir Extuary	IF SF 100 0550 Transitional TW31002103595001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21,15818 15/09/20	TRuC Denith Composite	Transpaggory	m market for Co	Metres	0.5				5	OK OK	
March Marc	Middle Suir Estuary	IE SE 100 0550 Transitional TW31002103595001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-08855 15/06/20	11 TRaC Depth Composite	Ammonia-Total (as N)	me/i	millerams per litre	0.028	- 6	x o	01 0.0	5	OK	0.01
March Marc	Middle Suir Extuary	E SE 100 0550 Transitional TW31002103585001 E SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br. SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council PreWfd Waterford City & County Council	21-11202 15/07/20	1 TRaC Depth Composite	Chlorophyll a (Fluorescence)	me/t Aun/t	millerams per litre Microgrammes per Litre	16	- 1	K O	01 1	6	OK OK	0.00
	Middle Suir Estuary	IF SF 100 0550 Transitional TW31002103595001	SR330 - Suir Extuary at Fiddown Br.		23 08887 37 08 (20	1 TRef Death Comments	Denth	m	Metres	2.5	- 6	ì ·		s	OK	0.00
				PreWid Waterford City & County Council PreWid Waterford City & County Council	21-03195 24/02/20 21-11202 15/07/20	1 TRaC Death Composite 1 TRaC Death Composite	Onsolved Oxygen onthe-Phosphate (as P) - unspecified	% Saturation mg/l	Percentage Saturation millerams per litre	0.04		K 0.0	05 0.0	7	OK OK	0.005
March Marc	Middle Suir Extuary	IE SE 100 0550 Transitional TW31002103595001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council				olf units	old Units	7.8	-	K	2 7		OK	2
March Marc	Middle Suir Extuary	E SE 100 0550 Transitional TW31002103585001	SR330 - Suir Extuary at Fiddown Br.	PreWfd Waterford City & County Council	21-15818 15/09/20	1 TRaC Depth Composite	Pheophytin a		Microgrammes per Litre	_	<0.01	K 0	01 0.00	5 -0.01	OK	0.01
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D0528 - Fiddown Ambient Points

Ambient Monitoring Point	Irish Grid	EPA Feature	Receiving W	aters Designa	tion (Y/N)		WFD Status
from WWDL (or as agreed with EPA)	Reference	Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	
TW31002103SR5001	E 246545		n	n	n	n	Poor
	N119738						
TW31002103SR5003	E248789 N115586		n	n	n	n	Poor

Ambient Impact Assessment Table

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS (95%lle)	%EQS
BOD mg/l	TW31002103SR5001	2.98	TW31002103SR5003	1.55		36%
Ortho-Phosphate (as P) mg/l	TW31002103SR5001	0.028	TW31002103SR5003	0.021		12%
Chlorophyll mg/m3	TW31002103SR5001	41.7	TW31002103SR5003	12.5		
pH pH units	TW31002103SR5001	8.3	TW31002103SR5003	8.3		
Dissolved Oxygen %saturation or mg/I	TW31002103SR5001	111	TW31002103SR5003	105		9%
Sampling depth m	TW31002103SR5001	3.55	TW31002103SR5003	4.9		
Temperature °C	TW31002103SR5001	15.6	TW31002103SR5003	16.1		
Salinity PSU	TW31002103SR5001	0.175	TW31002103SR5003	0.325		
Dissolved Inorganic Nitrogen (as N) mg/l		No results		No results		