Annual Environmental Report 2023



Wexford Town

D0030-02

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2023 AER

This Annual Environmental Report has been prepared for D0030-02, Wexford Town, in Wexford 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)

• Wexford town WWTP with a Plant Capacity PE of 45000, the treatment type is 3NP - Tertiary N&P removal.

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
TPEFF3300D0030SW001	Wexford town 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 WEXFORD TOWN WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - WEXFORD TOWN 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 Nitrogen mg/l	12	38	24
Suspended Solids mg/l	12	591	249
COD-Cr mg/l	12	998	386
Total Phosphorus (as P) mg/l	12	8.80	4.03
BOD, 5 days with Inhibition (Carbonaceo mg/l	12	446	153
Hydraulic Capacity	N/A	29096	15545

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 less than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'. The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliance with Emission Limit Values.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF3300D0030SW001

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	20	Pass
Suspended Solids mg/l	35	87.5	N/A	12	N/A	N/A	8.68	Pass
Temperature °C	25	25	N/A	12	N/A	N/A	10	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/l	25	50	N/A	12	N/A	N/A	1.91	Pass
Total Nitrogen mg/l	15	18	N/A	12	N/A	N/A	3.63	Pass
Total Oxidised Nitrogen (as N) mg/l	15	18	N/A	12	N/A	N/A	2.35	Pass
Ammonia-Total (as N) mg/l	10	12	N/A	12	N/A	N/A	0.525	Pass
pH pH units	9	9	N/A	12	N/A	N/A	7.20	Pass
Total Phosphorus (as P) mg/l	2	2.4	N/A	12	N/A	N/A	0.194	Pass

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)
Enterococci (Intestinal) cfu/100ml	N/A	N/A	N/A	2	N/A	N/A	2080	
Coliform Bacteria (Total) no./100mls	N/A	N/A	N/A	1	N/A	N/A	100001	
E. Coli no./100mls	N/A	N/A	N/A	2	N/A	N/A	28932	
Faecal coliforms no./100mls	N/A	N/A	N/A	2	N/A	N/A	28932	
Visual Inspection Descriptive	N/A	N/A	N/A	12	N/A	N/A	N/A	

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 TPEFF3300D0030SW001

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	301365, 123270	TW33002085SY2003	No	No	No	Yes	Poor
Downstream	307402 121085	TW33002085SY2014	No	No	No	Yes	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 coastal/transitional 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 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.

Based on ambient monitoring results a deterioration in cBOD mg/l, Dissolved Oxygen mg/l, concentrations downstream of the effluent discharge is noted.

A deterioration in water quality has been identified, however it is not known if it or is not caused by the WWTP.

Other causes of deterioration in water quality in the area are: Other causes of deterioration in water quality in the area are unknown.

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 - WEXFORD TOWN WWTP

2.1.4.1 Treatment Efficiency Report - Wexford town 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	1883927	109890	94
ss	1215616	46905	96
ТР	19680	1047	95
TN	116057	19624	83
cBOD	747166	10324	99

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

2.1.4.2 Treatment Capacity Report Summary - Wexford town 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.

Wexford town WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	30375
DWF to the Treatment Plant (m³/day)	10125
Current Hydraulic Loading - annual max (m³/day)	29096

Wexford town WWTP	
Average Hydraulic loading to the Treatment Plant (m³/day)	15544.8
Organic Capacity (PE) - As Constructed	45000
Organic Capacity (PE) - Collected Load (peak week)Note1	31883
Organic Capacity (PE) - Remaining	13117
Will the capacity be exceeded in the next three years? (Yes/No)	N/A

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 - WEXFORD TOWN 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)
Industrial / Commercial Sludge	16147	Volume (m3)		0.28	Yes	Yes	No

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 environment	There were no relevant environmental complaints in 2023.							

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 Uisce Éireann 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	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	Blocked Sewer	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes

Incident Type	Cause	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Emergency overflow caused by power failure	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Blocked Sewer	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Broken Sewer Pipe	No	Yes
Abatement equipment off-line	Network Infrastructure	No	Yes
Abatement equipment off-line	Plant or equipment maintenance at WWTP	No	Yes
Uncontrolled release	Emergency overflow caused by pump failure	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes

Incident Type	Cause	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Adverse Weather	No	Yes
Uncontrolled release	Adverse Weather	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Emergency overflow caused by pump failure	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Adverse Weather	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes

Incident Type	Cause	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Adverse Weather	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Emergency overflow caused by power failure	No	Yes
Spillage	Plant or equipment breakdown at WWTP	No	No
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	Adverse Weather	No	No

Incident Type	Cause	Recurring (Y/N)	Closed (Y/N)
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes
Uncontrolled release	SWO exceptional rainfall and overflow expected	No	Yes

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2023	58
Number of Incidents reported to the EPA via EDEN in 2023	58
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 2023 (No. of events)	Total volume discharged in 2023 (m3)	Monitoring Status
SW009	305145, 126755	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW011	302924, 115687	Yes	High Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW003	305761, 119257	Yes	High Significance	Not Meeting Criteria	Unknown	Unknown	Monitored
SW004	305341, 121436	Yes	High Significance	Not Meeting Criteria	Unknown	Unknown	Monitored
SW005	304782, 120996	Yes	High Significance	Not Meeting Criteria	Unknown	Unknown	Monitored
SW006	303706, 122669	Yes	High Significance	Meeting Criteria	Unknown	Unknown	Monitored

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 2023 (No. of events)	Total volume discharged in 2023 (m3)	Monitoring Status
SW010	292103, 119573	Yes	Medium Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW012	302924, 115687	Yes	Medium Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW014	304969,121457	Yes	High Significance	Not Meeting Criteria	Unknown	Unknown	Not Monitored
SW007	304982, 118040	Yes	Low Significance	Not Meeting Criteria	Unknown	Unknown Unknown	
-	305745, 126414	No	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW013	305286, 122922	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW002	300638, 115995	Yes	Low Significance Meeting Unknown		Unknown	Unknown	Monitored
-	304260, 120817	No	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

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 wastewater discharge by metered SWOs during the year (m3)?	693269

SWO Summary	
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
D0030-SIP:01	Discharge to be discontinued: SW002 (A0269SW001)	С	31/12/2018	Yes	Works Completed		

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 improver	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	Included in this AER
D0030-02-Priority Substances Assessment	Yes	No
D0030-02-Shellfish Impact Assessment	Yes	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
Is there a need to advise the EPA for Consideration of a Technical Amendment/Review of the Licence?	N/A
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	N/A
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	No

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

Signed: Date: 28/05/2024

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

Eleanor Roche

Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

Ambient Raw Data

				Down	stream					
Monitoring point	Date	Ammonia- Total (as N) mg/l	cBOD, 5 days with Inhibition	Dissolved Inorganic Nitrogen (as N) mg/I	Dissolved Oxygen % sat	ortho- Phosphate (as P) - unspecified mg/l	рН	Suspended Solids mg/I	Total Nitrogen mg/l	Total Phosphorus (as P) mg/l
TW33002085SY2014	15/02/2023	0.032				0.012	7.9	17		
	15/02/2023	0.021				0.015	7.9			
	14/04/2023	0.082	1	5.38			7.4	31	7	0.025
	29/05/2023	0.044				0.015	8.2	13		
	29/05/2023	0.046				0.016	8.2			
	22/06/2023	0.88	0.5	0.88			7.8	54	1.2	0.07
	17/07/2023	0.088			97	0.012	8	8		
	17/07/2023	0.085			98	0.015	8			
	25/07/2023	0.65	3	0.65			7.7	12	1.6	0.08
	08/08/2023	0.53	2	0.53			7.8	135	1.1	0.06
	04/09/2023	0.013			107	0.0025	8.1	2		
	04/09/2023	0.015			106	0.0025	8.1			
	03/10/2023	0.51	0.5	7.31			7.9	23	10	0.1
	mean	0.230462	1.4	2.95	102	0.01125	7.923077	32.77778	4.18	0.067
	95 %ile	0.742	2.8	6.924	106.85	0.01565	8.2	102.6	9.4	0.096

				Ups	tream					
Monitoring point	Date	Ammonia- Total (as N) mg/l	cBOD, 5 days with Inhibition	Dissolved Inorganic Nitrogen (as N) mg/I	Dissolved Oxygen % sat	ortho- Phosphate (as P) - unspecified mg/I	рН	Suspended Solids mg/I	Total Nitrogen mg/l	Total Phosphorus (as P) mg/l
TW33002085SY2003	15/02/2023	0.029				0.016	8	5		
	15/02/2023	0.062				0.02	7.9			
	14/04/2023	0.04	1	3.4			7.7	25	3.5	0.025
	29/05/2023	0.11				0.02	8.3			
	29/05/2023	0.022				0.023	8.5			
	22/06/2023	0.6	2	0.6			7.9	92	1.4	0.025
	17/07/2023	0.17			78	0.056	8			
	17/07/2023	0.18			82	0.036	7.5			
	25/07/2023	0.17	2	0.1			7.7	15	2.8	0.025
	08/08/2023	0.13	2	34.13			7.7	82	35	0.09
	04/09/2023	0.1			92	0.025	8.1			
	04/09/2023	0.062			102	0.022	8			
	03/10/2023	0.12	0.5	4.82			7.7	18	6	0.11
	mean	0.138	1.5	8.610	88.500	0.027	7.923	39.5	9.740	0.055
	95 %ile	0.348	2.0	28.268	100.500	0.049	8.380	89.5	29.200	0.106

Ambient Monitoring Report Summary Data

Ambient			Receiving	WFD			
Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	Status
TW33002085SY2003		TPEFF3300D0030SW001	No	No	No	Yes	Poor
	301365.49, 123269.65						
TW33002085SY2014		TPEFF3300D0030SW001	No	No	No	Yes	Poor
	307402.1, 121084.88						

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	%EQS
cBOD mg/l	TW33002085SY2003	2 (95%ile)	TW33002085SY2014	2.8 (95%ile)	4	
Ortho-Phosphate (as P) mg/l	TW33002085SY2003	0.027	TW33002085SY2014	0.011	0.06	
Ammonia (as N) mg/l	TW33002085SY2003	0.138	TW33002085SY2014	0.23		
pH pH units	TW33002085SY2003	7.92	TW33002085SY2014	8.2		
Dissolved Oxygen mg/l	TW33002085SY2003	100.5 (95%ilt)	TW33002085SY2014	106.85 (95%ile)	70-130	
Dissolved Inorganic Nitrogen (as N) mg/l	TW33002085SY2003	8.61	TW33002085SY2014	2.95		
Suspended Solids mg/l	TW33002085SY2003	39.5	TW33002085SY2014	32.78		
Total Nitrogen (as N) mg/l	TW33002085SY2003	9.74	TW33002085SY2014	4.18		
Total Phosphorus (as P) mg/l	TW33002085SY2003	0.055	TW33002085SY2014	0.067		