Annual Environmental Report

2020



Balbriggan

D0023-01

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Revison: PE Revised 26/05/2021 ER

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 AER

This Annual Environmental Report has been prepared for D0023-01, Balbriggan, in Dublin 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.

Works at Loughshinny Pump Station commenced in September 2020 and are currently on going.

1.2 TREATMENT SUMMARY

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

• Barnageeragh WWTP - 2020 with a Plant Capacity PE of 70000, 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
TPEFF0900D0023SW001	Barnageeragh WWTP - 2020	Treated	Compliant	N/A

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 BARNAGEERAGH WWTP - 2020 - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - BARNAGEERAGH WWTP - 2020

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	38	596.00	343.38
COD-Cr mg/l	39	1455.00	789.47
Suspended Solids mg/l	38	1233.00	503.18
Total Nitrogen mg/l	39	71.90	49.74
Total Phosphorus (as P) mg/l	39	11.80	7.58
Hydraulic Capacity	N/A	22194	9659

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 - TPEFF0900D0023SW001

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included ^{Note 1}	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	39	N/A	N/A	36.02	Pass
Suspended Solids mg/l	35	87.5	N/A	39	N/A	N/A	4.88	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	38	N/A	N/A	3.68	Pass
pH pH units	6-9	6-9	N/A	39	N/A	N/A	7.84	Pass
Nitrite (as N) mg/l	N/A	N/A	N/A	39	N/A	N/A	0.46	
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	39	N/A	N/A	8.36	
Coliform Bacteria (Total) no./100mls	N/A	N/A	N/A	38	N/A	N/A	3053.94	
Colour Hazen	N/A	N/A	N/A	4	N/A	N/A	42.60	
Conductivity @20°C μS/cm	N/A	N/A	N/A	39	N/A	N/A	921.05	
Dissolved Inorganic Nitrogen (as N) mg/l	N/A	N/A	N/A	39	N/A	N/A	14.93	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included ^{Note 1}	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
E. Coli no./100mls	N/A	N/A	N/A	38	N/A	N/A	1162.78	
Nitrate (as N) mg/l	N/A	N/A	N/A	39	N/A	N/A	6.12	
Nitrite (as N) mg/l	N/A	N/A	N/A	39	N/A	N/A	0.46	
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	39	N/A	N/A	2.42	
PCB 101 µg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
PCB 118 µg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
PCB 138 µg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
PCB 153 μg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
PCB 180 µg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
PCB 28 µg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
PCB 52 µg/l	N/A	N/A	N/A	2	N/A	N/A	0.00	
Salinity PSU	N/A	N/A	N/A	12	N/A	N/A	0.30	
Total Nitrogen mg/l	N/A	N/A	N/A	39	N/A	N/A	16.25	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included ^{Note 1}	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
Total Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	39	N/A	N/A	6.57	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	39	N/A	N/A	2.92	

Notes:

Cause of Exceedance(s):

Not applicable

Significance of Results:

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

^{1 –} This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0900D0023SW001

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

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

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Downstream	321806, 265565	CW09001003DB7005	Yes	No	No	Yes	High
Downstream	324604, 263044	CW09001003DB7004	No	No	No	Yes	High

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 meets 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 - BARNAGEERAGH WWTP - 2020

2.1.4.1 Treatment Efficiency Report - Barnageeragh WWTP - 2020

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)
cBOD	1252678	15620	99
COD	2895911	149800	95
ss	1848599	20282	99
TN	182447	67582	63
ТР	27798	12144	56

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

2.1.4.2 Treatment Capacity Report Summary - Barnageeragh WWTP - 2020

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.

Barnageeragh WWTP - 2020	
Peak Hydraulic Capacity (m³/day) - As Constructed	48300
DWF to the Treatment Plant (m³/day)	16100
Current Hydraulic Loading - annual max (m³/day)	22194
Average Hydraulic loading to the Treatment Plant (m³/day)	9659
Organic Capacity (PE) - As Constructed	70000
Organic Capacity (PE) - Collected Load (peak week)Note1	41654
Organic Capacity (PE) - Remaining	27501
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 - BARNAGEERAGH WWTP - 2020

'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 is included below.

Number of Complaints Nature of Complaint		Number Open Complaints	Number Closed Complaints
There were no relevant environm	ental complaints in 2020.		

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)
Abatement Equipment offline	Plant or equipment breakdown at WWTP	1	No	Yes
Abatement Equipment offline Network Infrastructure		1	No	Yes
Abatement Equipment offline	Network Infrastructure	1	No	Yes

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Abatement Equipment offline	Abatement Equipment offline Plant or equipment breakdown at WWTP		No	Yes
Abatement Equipment offline Plant or equipment breakdown at WWTP		1	No	Yes
Abatement Equipment offline	Network Infrastructure	1	No	No
Other	Network Infrastructure	1	No	Yes
Uncontrolled release	Plant or equipment breakdown at WWTP	1	No	Yes

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2020	8
Number of Incidents reported to the EPA via EDEN in 2020	8
Explanation of any discrepancies between the two numbers above	N/A

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

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

4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2020 (No. of events)	Total volume discharged in 2020 (m³)	Monitoring Status
SW003	321562, 263476	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
SW005	320442, 263832	Yes	High	Not Meeting	Unknown	Unknown	Not Monitored
SW007	325541, 261081	Yes	Medium	Meeting	Unknown	Unknown	Not Monitored
SW009	324015, 261092	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW010	320879, 260080	Yes	Low	Meeting	Meeting Unknown		Not Monitored
твс	320093, 263048	No	Medium	Meeting Unknown		4060	Monitored

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2020 (No. of events)	Total volume discharged in 2020 (m³)	Monitoring Status
ТВС	320922, 263612	No	Low	Meeting	Unknown	Unknown	Not Monitored

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

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

4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

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

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
D0023-SIP:01	Balbriggan/Skerries Wastewater Treatment Scheme (Phase III) - Sewer Network Upgrade including infrastructure to direct WW from Loughshinny & Killalane to Barnageeragh WWTP	С	31/12/2010	Yes	Work ongoing on- site	31/12/2023	
D0023-SIP:02	Balbriggan/Skerries Wastewater Treatment Scheme (Phase III) - Sewer Network Upgrade to improve primary discharge	С	31/12/2010	Yes	Works Completed		
D0023-SIP:03	Connection of Kelly's Bay P.S. to Barnageeragh WWTP. SW6 to cease or revert to SWO complying with DoE criteria.	С	31/12/2010	Yes	Works Completed		
D0023-SIP:04	Discharge to cease: SW014 Killalane septic tank	А	31/12/2010	Yes	Works Completed		

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
D0023-SIP:05	Discharge to cease: SW006 Hoar's Rock, Skerries to cease or revert to a surface water overflow	А	31/12/2010	Yes	Works Completed		
D0023-SIP:06	Discharge to cease: SW015 Loughshinny septic tank	А	31/12/2010	Yes	At Planning Stage	31/12/2023	
D0023-SIP:07	Upgrading of sewer network to ensure SWOs comply with DoE criteria	С	31/12/2020	No	Work ongoing on- site	31/12/2023	

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

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

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

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

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

5 LICENCE SPECIFIC REPORTS

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

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Priority Substances Assessment	Yes	2013	No	N/A
Shellfish Impact Assessment	Yes	2015	No	N/A

5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2013.

5.2 SHELLFISH IMPACT ASSESSMENT

The Shellfish Impact Assessment Report has been included in the AER 2015.

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	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: 16/3/2021

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

Balbriggan Ambient Monitoring Summary 2020

Ambient Monitoring Report Summary Table

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	Current WFD Status
Marine Monitoring Point Northwestern Irish Sea – Balbriggan	321806.2, 265565.32	DB800	No	No	No	Yes	High (Coastal Water Quality Status: 2013 - 2018)
Marine Monitoring Point Northwestern Irish Sea – Skerries	325502.26 262243.93	DB780	No	No	No	Yes	High (Coastal Water Quality Status: 2013 - 2018)
Shore Monitoring Point Balbriggan North Beach	320385E 264052N		Yes	No	No	Yes	High (Coastal Water Quality Status: 2013 - 2018)
Shore Monitoring Point Skerries South Beach	325569E 260666N		Yes	No	No	Yes	High (Coastal Water Quality Status: 2013 - 2018)
Shore Monitoring Point Loughshinny Beach	327233E 256837N		Yes	No	No	Yes	High (Coastal Water Quality Status: 2013 - 2018)

2020 Ambient Monitoring Summary

Sampling Point	Sample Date	Ammonia	BOD	Chlorophyll	DIN	DO	рН	Ortho Phosphate	Salinity	Temp	TON	TN
Description Sample Bate	mg/l as N	mg/I O ₂	μg/l	mg/l	% Sat.		mg/l P	PSU	°C	mg/I as N	mg/I as N	
DB780	26/05/2020	< 0.02	< 2	< 4.00	< 0.80	107.5	8.09	< 0.02	34.8	12.2	< 0.8	< 0.2
DB780	07/09/2020	0.02	<2	<4.00	<1.11	98.6	7.88	0.03	33.83	15.4	<0.7	1.63
DB800	26/05/2020	< 0.02	< 2	< 4.00	< 0.80	105.2	8.07	< 0.02	34.7	12.2	< 0.8	0.8
DB800	07/09/2020	<0.02	<2	<4.00	<1.11	99.1	7.90	0.03	33.92	15.9	<0.7	3.61

Bathing Water Results 2020

Balbriggan Front Beach

Balbriggan, Front Strand Beach was classified as achieving Sufficient Water Quality in 2019 based on the assessment of bacteriological results for the period 2016 to 2019. Balbriggan, Front Strand Beach has had a Sufficient Water Quality rating for the four consecutive years 2016 to 2019. There is no 2020 classification.

The Escherichia coli and Intestinal enterococci results for the 2020 sample period are tabled below.

Date	E-Coli Result	Intestinal Enterococci	Water Sample Status		
		Result			
01/09/2020	121	12	Excellent		
25/08/2020	7701	Poor			
11/08/2020	110	210	Sufficient		
27/07/2020	109	29	Excellent		
13/07/2020	62	4	Excellent		
29/06/2020	171	66	Excellent		
15/06/2020	<10	2	Excellent		
02/06/2020	10	1	Excellent		
25/05/2020	<10	<1	Excellent		

(Source: Beaches.ie)

Skerries South Beach

Skerries, South Beach was classified as achieving Good Water Quality in 2019 based on the assessment of bacteriological results for the period 2016 to 2019. Skerries, South Beach achieved a Good Water Quality rating in 2018, a Sufficient Water Quality rating in 2017, and achieved a Good Water Quality rating in 2016. There is no 2020 classification.

The Escherichia coli and Intestinal enterococci results for the 2020 sample period are tabled below.

Date	E-Coli Result	Intestinal Enterococci	Water Sample Status
		Result	
01/09/2020	31	14	Excellent
25/08/2020	2851	590	Poor
11/08/2020	63	63	Excellent
27/07/2020	417	420	Poor
13/07/2020	86	90	Excellent
29/06/2020	63	80	Excellent
15/06/2020	<10	3	Excellent
02/06/2020	20	4	Excellent
25/05/2020	20	3	Excellent

(Source: Beaches.ie)

Loughshinny Beach

Loughshinny Beach was classified as achieving Good Water Quality in 2019 based on the assessment of bacteriological results for the period 2016 to 2019. Loughshinny Beach achieved a Good Water Quality rating in 2018, and had a Poor Water quality rating in 2017 and 2016. There is no 2020 classification.

The Escherichia coli and Intestinal enterococci results for the 2020 sample period are tabled below.

Date	E-Coli Result	Intestinal	Water Sample
		Enterococci Result	Status
01/09/2020	63	9	Excellent
25/08/2020	2282	320	Poor
11/08/2020	1210	270	Poor
27/07/2020	703	640	Poor
13/07/2020	135	48	Excellent
29/06/2020	10	17	Excellent
15/06/2020	<10	82	Excellent
02/06/2020	<10	21	Excellent
25/05/2020	10	19	Excellent

(Source: Beaches.ie)

Shellfish Regs (Organics) (Most up to Date Data)

	Location		Sample Number			FATWT%	CB18	CB31	CB28	CB52	CB44	CB101	CB149	CB118	CB153	CB105
Balbri	iggan - Ske	erries	ENV-18-1128			1.56	nd	0.026	0.074	0.06	0.039	0.112	0.117	0.141	0.306	0.049
CB138	CB156	CB180	CB170	CB194	CB209	HCBD	НСВ	НСНА	HCHG	НСНВ	HEPC	HCHD	OCDAN	HCEPC	TNONC	TCDAN
0.15	0.006	nd	nd	nd	nd	0.044	0.026	<0.03	<0.03	<0.03	nd	nd	nd	nd	<0.03	<0.03
DDEOP	CCDAN	DDEPP	TDEOP	TDEPP	DDTPP	DDTOP	BDE28	BDE47	BD100	BDE99	BD154	BD153	BD183	NAP	ACNLE	ACNE
<0.03	<0.03	0.221	0.052	0.166	<0.169	<0.032	<0.036	0.062	0.041	nd	<0.036	nd	<0.036	NA	0.144	0.393
FLE	PA	ANT	FLU	PYR	CHR	BAA	BBF	BKF	ВАР	ICDP	DBAHA	BGHIP				
0.855	3.746	0.157	5.767	3.244	1.934	1.347	1.875	0.831	0.637	0.403	0.064	0.568				

Shellfish Regs (Biota) (Most up to Date Data)

Year	Date	Sample	Subno	Programme	Station	Latitude	Longitude	Species	Species	# of	Length	Length Mean	Length	Tissue
								(latin)	(common)	individuals	Range	(mm)	Stdev	analysed
											(mm)		(mm)	
2018	30/11/18	1128	1	SWD	Balbriggan -	53.61447	-6.16905	Ensis	clam,	-	-	-	-	SB
					Skerries			siliqua	razor					

Moisture (%)	Lipid (%)	aluminium	arsenic	cadmium	chromium (mg kg-	cobalt (mg kg-1	copper (mg kg-	iron (mg kg-1	lead (mg kg-1	manganese	mercury	nickel (mg	selenium	silver (mg
		(mg kg-1	(mg kg-1	(mg kg-1	1 WW)	ww)	1 WW)	ww)	ww)	(mg kg-1	(mg kg-	kg-1 WW)	(mg kg-1	kg-1 WW)
		ww)	ww)	ww)						ww)	1 WW)		ww)	
77.8	1.56	71.8	1.5	0.02	0.31	0.05	1.5	58.5	0.16	1.51	0.01	0.08	0.28	0.12

vanadium (mg kg-1 WW)	zinc (mg kg-1 WW)
0.16	15.6