

# Ballivor Waste Water Works



## Annual Environmental Report

For

**EPA Waste Water Discharge Licence D0254-01**

**01/01/2012 to 31/12/2012**

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# **SECTION 1:**

## **INTRODUCTION & BACKGROUND**

## **SECTION 1.1: EXECUTIVE SUMMARY.**

### **Introduction:**

Ballivor Waste Water Treatment Plant (WwTP) is operated and maintained by Meath County Council. The waste water treatment plant was built to serve the agglomeration of Ballivor Co. Meath. It is designed for a population equivalent (p.e.) of 2,000 with a licensed p.e. of 2,000.

The following Annual Environmental Report (AER) has been prepared as per Condition 6.10 of Meath County Council's Discharge Licence D0254-01 and includes all information requested under schedule D of this licence.

### **Plant Details:**

Ballivor WwTP includes screening, two diffused aeration tanks, two clarifiers, ferric dosing, sludge thickening & dewatering and a storm water tank. The primary discharge from the WwTP is to the River Ballivor a tributary of the Stonyford River.

### **Compliance Issues:**

There were a number of Emission Limit Value (ELV) exceedances recorded during the reporting period 01/01/12 to 31/12/12. These exceedances mainly relate to BOD, Ammonia and Orthophosphate. All exceedances were reported to the Agency and all incidents reports are available for inspection at the Environment & Water Services Offices in Navan, Co.Meath.

### **Complaints Received:**

There were no complaints received during the reporting period 01/01/12 to 31/12/12.

### **Projected Completed:**

There were no significant improvements works or project carried out at the Treatment Works during the reporting period 01/01/12 to 31/12/12.

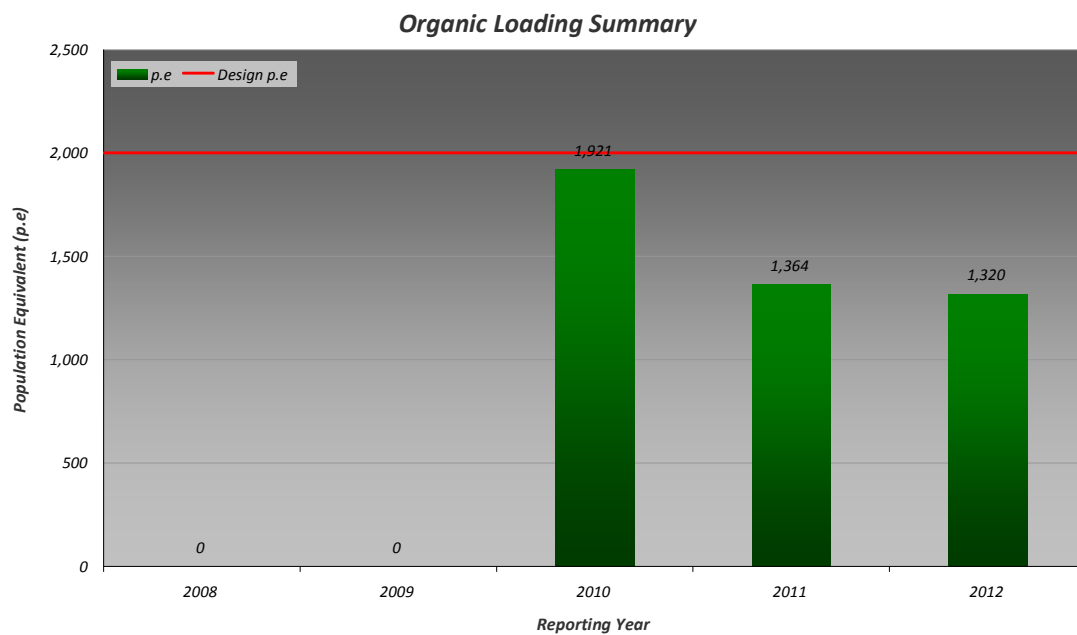
## **SECTION 2:**

### **MONITORING REPORTS SUMMARY.**

## Section 2.1: Summary Report on Monthly Influent Monitoring.

*Influent Results Table:*

	<i>Influent Results (mg/l)</i>					<i>Hydraulic Loading (m3/d)</i>	<i>Organic Loading (p.e/d)</i>
	<i>BOD</i>	<i>COD</i>	<i>TSS</i>	<i>TP</i>	<i>TN</i>		
No. Samples	17	17	17	17	17		
Max. Result	873	901	1,520	21	69	982	-
Avg. Result	149	320	96	4	37	532	1,320



### *Summary of Results:*

As can be seen from the 'Influent Results Table' and the 'Organic Loading Summary' chart Ballivor WwTP is operating within its licensed capacity of 2,000 p.e.

**Section 2.2: Discharges from the Agglomeration Report.**

Parameter:	Flow	BOD	COD	TSS	TN	NH4	TP	OP	N03	N02	TON	BOD	TP
Units:	m <sup>3</sup> /d	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	kg/d	kg/d	kg/d
Average Results for 2012	505	13	32	12	N/A	2.8	N/A	0.4	N/A	N/A	N/a	6.6	0.2
WWDL ELV	N/A	20	125	35	N/A	0.5	N/A	1.1	N/A	N/A	N/A	N/A	N/A
ELV (Condition 2)	N/A	40	250	88	N/A	0.6	N/A	1.2	N/A	N/A	N/A	N/A	N/A
Annual Mean ELV	505	13	32	12	N/A	2.8	N/A	0.4	N/A	N/A	N/A	N/A	N/A
No. of Results	N/A	17	17	17	17	17	N/A	17	N/A	N/A	N/A	N/A	N/A
WWDL ELV Exceedances	N/A	10	0	1	N/A	8	N/A	6	N/A	N/A	N/A	N/A	N/A
ELV (Condition 2) Exceedances	N/A	7	0	0	N/A	8	0	3	N/A	N/A	N/A	N/A	N/A
Annual Mean Exceedances	505	13	32	12	N/A	2.8	N/A	0.4	N/A	N/A	N/A	N/A	N/A
Allowable Exceedances	N/A	3	3	3	N/A	3	3	3	N/A	N/A	N/A	N/A	N/A
Overall Compliance	N/A	Fail	Pass	Pass	N/A	Fail	N/A	Fail	N/A	N/A	N/A	N/A	N/A

**Section 2.3: Treatment Efficiency Report.**

<b><u>Results:</u></b>	<b><u>Units</u></b>	<b><u>cBOD</u></b>	<b><u>COD</u></b>	<b><u>TSS</u></b>	<b><u>Total P</u></b>	<b><u>Total N</u></b>	<b><u>Comment</u></b>
<b>Average Influent Mass Loading</b>	kg/day	80	172	52	2	20	-
<b>Average Effluent Mass Emission</b>	kg/day	7	16	6	0.2	8	-
<b>Average Treatment % Efficiency</b>	% reduction on Influent Load	92%	91%	88%	91%	61%	Note 1
<b>Target Treatment % Efficiency</b>	Minimum % reduction on Influent Load	70-90%	75%	90%	80%	70-80%	Ref: Second Schedule (Part 1 and Part 2) of the Urban Waste Water Treatment Regulations, 2001.

**Note 1:**

As can be seen from the above table Ballivor WwTP has failed to achieve the minimum % Total Suspend Solids and Total Nitrogen reduction as required under the Urban Waste Water Treatment Regulations, 2001. Meath County Council is currently undertaking a review of the Ballivor WWTP to identify the reasons for the ELV exceedances. The review will also include a number of improvement measures to reduce any further exceedances. All ELV exceedances were reported to the Environmental Protection Agency (EPA) through the EDEN system and reports are available for inspection at the Environment & Water Services Offices in Navan, Co. Meath.



#### 2.4 Treatment Capacity Report

Parameter		m <sup>3</sup> /day / PE
Hydraulic Capacity: (m <sup>3</sup> /day)	Design	-
	Current	-
	Remaining	-
Organic Capacity: (PE)	Design	2,000
	Current	1,320
	Remaining	680
Will the capacity be exceeded in the next three years? (Yes / No)		No

**Section 2.5: Ambient Monitoring Summary Report.**

# **Report**

**From:** Kieran Cunningham

**To:** Enda Collins

**Re:** Ballivor WWTP (D0254-01)  
u/s and d/s Ambient river monitoring 2012

**Date:**

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Below is the data from monitoring the River Ballivor (tributary of the River Stoneyford) upstream and downstream of Ballivor WWTP in 2012 as required by Schedule B of the licence.

Schedule B requires that 10 samples per year of the receiving water are taken. In 2012 the River Ballivor was sampled on 7 occasions.

Date	DO (% Sat.)		DO (mg/L)		Temp (°C)		pH	
	u/s	d/s	u/s	d/s	u/s	d/s	u/s	d/s
19/01/2012	86.3	89.5	10.7	11.0	7.0	7.0	8.0	7.0
16/02/2012	86.2	88.4	10.0	10.2	9.2	9.5	8.0	8.0
22/05/2012	82.9	80.7	8.6	8.3	13.5	14.3	8.0	8.0
04/07/2012	45.7	57.3	4.6	5.7	14.4	15.3	7.7	7.8
09/08/2012	69.2	91.3	7.0	8.5	15.7	19.1	7.7	7.9
01/11/2012	80.2	91.8	9.4	10.9	6.4	6.7	7.8	7.9
13/12/2012	75.9	78.0	10.0	10.0	4.4	4.3	7.8	7.8
Mean	75.2	82.4	8.6	9.2	10.1	10.9	7.9	7.8
95% ile	86.3	91.7	10.5	11.0	15.3	18.0	8.0	8.0

Date	BOD (mg/L)		NH <sub>4</sub> (mgN/L)		MRP (mgP/L)		TN (mgN/L)	
	u/s	d/s	u/s	d/s	u/s	d/s	u/s	d/s
19/01/2012	1.2	1.7	0.08	0.10	0.05	0.06	2.4	3.0
16/02/2012	1.1	1.6	0.07	0.13	0.04	0.05	2.8	3.4
22/05/2012	1.5	2.5	0.03	0.08	0.03	0.06	1.8	3.1
04/07/2012			0.03	0.14	0.16	0.18	2.4	2.9
09/08/2012	1.9	6.7	0.09	0.04	0.05	0.07		
01/11/2012	1.4	3.1	0.08	0.10	0.03	0.05	1.5	3.0
13/12/2012	1.3	3.1	0.28	0.26	0.02	0.06	1.8	4.3
Mean	1.4	3.1	0.09	0.12	0.05	0.08	2.1	3.3
95% ile	1.8	5.8	0.22	0.22	0.13	0.15	2.7	4.1

Assessment of the impact of the discharge over this period of time is made using the Environmental Quality Standards set out in the EC Environmental Objectives (Surface Water) Regulations 2009, as follows:

1. Ammonia

*High status  $\leq 0.040 \text{ mgN/L}$  (mean) or  $\leq 0.090 \text{ mgN/L}$  (95%ile)*

*Good status  $\leq 0.065 \text{ mgN/L}$  (mean) or  $\leq 0.140 \text{ mgN/L}$  (95%ile)*

2. Molybdate Reactive Phosphorous

*High status  $\leq 0.025 \text{ mgP/L}$  (mean) or  $\leq 0.045 \text{ mgP/L}$  (95% ile)*

*Good status  $\leq 0.035 \text{ mgP/L}$  (mean) or  $\leq 0.075 \text{ mgP/L}$  (95% ile)*

3. Biochemical Oxygen Demand (B.O.D.)

*High status  $\leq 1.3 \text{ mgO}_2/\text{L}$  (mean) or  $\leq 2.2 \text{ mgO}_2/\text{L}$  (95% ile)*

*Good status  $\leq 1.5 \text{ mgO}_2/\text{L}$  (mean) or  $\leq 2.6 \text{ mgO}_2/\text{L}$  (95% ile)*

4. Dissolved Oxygen (D.O.)

*D.O. Lower limit  $> 80\%$  saturation (95 %ile)*

*D.O. Upper limit  $< 120\%$  saturation (95 %ile)*

In the tables above, mean and 95%ile results for 2012 are green where high Status would be achieved, orange where good status would be achieved and red for results higher than the EQS for good status.

From the above data the discharge from Ballivor WWTP appears to be having a negative impact on the water quality in the receiving water with an increase seen in the mean downstream concentrations of BOD, Ammonia, MRP and TN.

***Section 2.6: Data Collection and Reporting Requirements under the Urban Waste Water Treatment Directive***

The Environmental Section of Meath County Council is responsible for all the data collection and reporting requirement under the Urban Waste Water Treatment Directive. All results have been submitted via EDEN and the Online Urban Waste Water System.

## ***Section 2.7: Pollutant Release and Transfer Register***



Environmental Protection Agency

| PRTR# : D0254 | Facility Name : Ballivor Waste Water Treatment Plant | Filename : D0254\_2012.xls | Return Year : 2012 |

[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.16

<b>REFERENCE YEAR</b>	2012
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Meath County Council
Facility Name	Ballivor Waste Water Treatment Plant
PRTR Identification Number	D0254
Licence Number	D0254-01

Waste or IPPC Classes of Activity

No.	class_name
30.4	General

Address 1	County Hall
Address 2	Navan
Address 3	County Meath
Address 4	
	Meath
Country	Ireland
Coordinates of Location	-6.95894 53.5297
River Basin District	IEEA
NACE Code	3700
Main Economic Activity	Sewerage
<b>AER Returns Contact Name</b>	Enda Collins
<b>AER Returns Contact Email Address</b>	aerreporting@meathcoco.ie
<b>AER Returns Contact Position</b>	WSU Manager
<b>AER Returns Contact Telephone Number</b>	046-9097188
<b>AER Returns Contact Mobile Phone Number</b>	087-2296638
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	0
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(f)	Urban waste-water treatment plants

## 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

## 4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
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## 4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : D0254 | Facility Name : Ballivor Waste Water Treatment Plant | Filename : D0254\_2012.xls | Return Year : 2012 |

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## SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
02	Carbon monoxide (CO)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
03	Carbon dioxide (CO2)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	-56400.0	0.0	-56400.0
05	Nitrous oxide (N2O)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
07	Non-methane volatile organic compounds (NMVOC)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
11	Sulphur oxides (SOx/SO2)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

## SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

## SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

## Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:	Ballivor Waste Water Treatment Plant				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year		Method Used		Facility Total Capacity m3 per hour
			M/C/E	Method Code	Designation or Description
	Total estimated methane generation (as per site model)		0.0		N/A
	Methane flared		0.0		0.0 (Total Flaring Capacity)
	Methane utilised in engine/s		0.0		0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

## 4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : D0254 | Facility Name : Ballivor Waste Water Treatment Plant | Filename : D0254\_2012.xls | Return Year : 2012 |

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## SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
34	1,2-dichloroethane (EDC)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
25	Alachlor	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
26	Aldrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
61	Anthracene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.001	0.001	0.0	0.0
17	Arsenic and compounds (as As)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.105	0.105	0.0	0.0
27	Atrazine	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
62	Benzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.003	0.003	0.0	0.0
91	Benzo(g,h,i)perylene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
63	Brominated diphenylethers (PBDE)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
18	Cadmium and compounds (as Cd)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.05	0.05	0.0	0.0
28	Chlordane	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
29	Chlordecone	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
30	Chlorfenvinphos	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
79	Chlorides (as Cl)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	10058.581	10058.581	0.0	0.0
31	Chloro-alkanes, C10-C13	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.039	0.039	0.0	0.0
32	Chlorpyrifos	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
19	Chromium and compounds (as Cr)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.149	0.149	0.0	0.0
20	Copper and compounds (as Cu)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.558	0.558	0.0	0.0
82	Cyanides (as total CN)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.545	0.545	0.0	0.0
33	DDT	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
70	Di-(2-ethyl hexyl) phthalate (DEHP)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.17	0.17	0.0	0.0
35	Dichloromethane (DCM)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.008	0.008	0.0	0.0
36	Dieldrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
37	Diuron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.005	0.005	0.0	0.0
38	Endosulphan	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
39	Endrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
65	Ethyl benzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.003	0.003	0.0	0.0



88	Fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
83	Fluorides (as total F)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	43.676	43.676	0.0	0.0
40	Halogenated organic compounds (as AOX)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.444	0.444	0.0	0.0
41	Heptachlor	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
90	Hexabromobiphenyl	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
42	Hexachlorobenzene (HCB)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
43	Hexachlorobutadiene (HCBd)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
89	Isodrin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
67	Isoproturon	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.001	0.001	0.0	0.0
23	Lead and compounds (as Pb)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.565	0.565	0.0	0.0
45	Lindane	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
21	Mercury and compounds (as Hg)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
46	Mirex	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
68	Naphthalene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.001	0.001	0.0	0.0
22	Nickel and compounds (as Ni)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.791	0.791	0.0	0.0
64	Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.015	0.015	0.0	0.0
87	Octylphenols and Octylphenol ethoxylates	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
69	Organotin compounds (as total Sn)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
48	Pentachlorobenzene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
49	Pentachlorophenol (PCP)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
71	Phenols (as total C)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.169	0.169	0.0	0.0
50	Polychlorinated biphenyls (PCBs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
72	Polycyclic aromatic hydrocarbons (PAHs)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.002	0.002	0.0	0.0
51	Simazine	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.003	0.003	0.0	0.0
52	Tetrachloroethylene (PER)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.011	0.011	0.0	0.0
53	Tetrachloromethane (TCM)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
73	Toluene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.092	0.092	0.0	0.0
12	Total nitrogen	M	OTH		1486.856	1486.856	0.0	0.0
76	Total organic carbon (TOC) (as total C or COD/3)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	1713.559	1713.559	0.0	0.0
13	Total phosphorus	M	OTH		74.343	74.343	0.0	0.0
59	Toxaphene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
74	Tributyltin and compounds	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0

54	Trichlorobenzenes (TCBs)(all isomers)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
57	Trichloroethylene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
77	Trifluralin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
75	Triphenyltin and compounds	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
60	Vinyl chloride	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
78	Xylenes	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.022	0.022	0.0	0.0
24	Zinc and compounds (as Zn)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	9.175	9.175	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

## SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

## SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
370	Selenium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
205	Antimony (as Sb)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.029	0.029	0.0	0.0
368	Molybdenum	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
358	Tin	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.027	0.027	0.0	0.0
373	Barium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	2.462	2.462	0.0	0.0
374	Boron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	11.358	11.358	0.0	0.0
356	Cobalt	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.033	0.033	0.0	0.0
386	Vanadium	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.507	0.507	0.0	0.0
388	Dichlobenil	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.001	0.001	0.0	0.0
383	Linuron	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
385	Mecoprop Total	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.02	0.02	0.0	0.0
380	2,4 Dichlorophenol (2,4 D)	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.009	0.009	0.0	0.0
384	MCPA	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.016	0.016	0.0	0.0
382	Glyphosate	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.285	0.285	0.0	0.0
389	Benzo[a]pyrene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0
390	Benzo[b]fluoranthene	E	ESTIMATE	EPA UWWTP Tool Version 5.0	0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : D0254 | Facility Name : Ballivor Waste Water Treatment Plant | Filename : D0254\_2012.xls | Return Year : 2012 |

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SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : D0254 | Facility Name : Ballivor Waste Water Treatment Plant | Filename : D0254\_2012.xls | Return Year : 2012 |

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Please enter all quantities on this sheet in Tonnes

3

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer	Non Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	19 08 01	No		screenings	D5	E	Volume Calculation	Offsite in Ireland	Panda Waste Services,WCP/DC/09/1188/01	Rathdrinagh,Beauparc,Nava n,Co.Meath,Ireland		
Within the Country	19 08 05	No		sludges from treatment of urban waste water	R10	E	Volume Calculation	Offsite in Ireland	Patrick Brady Agri,WCPMH/2004/041C	Rosmeen,Kells,,Co.Meath,Ireland		

\* Select a row by double-clicking the Description of Waste then click the delete button

## **SECTION 3:**

### **OPERATIONAL REPORTS SUMMARY**

**SECTION 3.1: COMPLAINTS SUMMARY**

<i><b>Number</b></i>	<i><b>Date &amp; Time</b></i>	<i><b>Nature of Complaint</b></i>	<i><b>Cause of Complaint</b></i>	<i><b>Actions Taken</b></i>	<i><b>Closed (Y/N)</b></i>

There were no complaints recorded in during the reporting period 01/01/12 to 31/12/12.



**SECTION 3.2: REPORTED INCIDENTS SUMMARY**

<i><b>Date &amp; Time</b></i>	<i><b>Incident Description</b></i>	<i><b>Cause</b></i>	<i><b>Corrective Action</b></i>	<i><b>Authorities Contacted</b></i>	<i><b>Reported to EPA (Yes/No)</b></i>	<i><b>Closed (Y/N)</b></i>
Oct 2012	Ref 10031 – NH4 ELV, BOD ELV & OP ELV Exceedances	Aeration System maintenance required	Maintenance carrier out	No	Yes	Yes
Nov 2012	Ref 10036 – NH4 ELV, BOD ELV & OP ELV Exceedances	Insufficient aeration	Test Kits issued to Caretaker	ERFB*	Yes	Yes

\* Eastern River Fisheries Board

## **SECTION 4:**

### **INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS**

## **SECTION 4.1 TREATMENT CAPACITY**

*See Section 2.4*

#### **SECTION 4.2: STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT**

##### ***SWO Identification and Inspection Summary Report Table:***

How many SWOs are listed in the Schedule A4 of the WWDL?	1
How many additional SWOs are listed in the agglomeration?	-
Total number of SWOs in the agglomeration?	1
How many SWOs are listed as compliant with the DoEHLG Guidance?	-
For each SWO identified as non-compliant with DoEHLG Guidance is there a corrective action plan included in the Programme of Improvements?	-
Does the SWO assessment include the requirements of Schedule A3 & C3	-
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	-

***Note: A storm water assessment report will be forwarded to The Agency in 2013***

**SECTION 4.3: REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.**

**Licence Condition 5.1: Programme of Infrastructural Improvements.**

There is no planned programme for infrastructure improvements at Ballivor WwTP.

**Licence Condition 5.2: Assessing the Programme of Infrastructural Improvements.**

There is no planned programme for infrastructure improvements at Ballivor WwTP.

**Licence Condition 5.3: Plan for Implementation of Infrastructural Improvements.**

There is no planned programme for infrastructure improvements at Ballivor WwTP.

**Licence Condition 5.4: Programme of Measures for Gathering, Recording, and Retention of Information**

As-Constructed drawings and Mechanical & Electrical drawing are available for inspection at Meath County Council Headquarters. The information includes all the infrastructural components of the waste water works.

## **SECTION 5:**

### **STATEMENT OF MEASURES**

## SECTION 5.1: STATEMENT OF MEASURES

Risk I.D.	Risk Score	Mitigation measure to be taken	Outcome	Action	Revised Date for completion	Owner/Contact Persons
I	3	Document over ground tank visual inspections.	Reduce risk of effluent spillages.	Create a checklist for caretakers to use.	June 2014	Water Services
II	3	Document over ground pipeline visual inspections.	Reduce risk of effluent spillages.	Create a checklist for caretakers to use.	June 2014	Water Services
III	6	Put in place a planned preventative maintenance (PPM) schedule.	Reduce the likelihood of equipment failure.	Write up formal PPM as required by Condition 4.9 of their licence.	June 2014	Water Services
IV	8	Carry out a risk assessment for the protection of the downstream drinking water abstraction point(s) (Condition 4.17)	Reduce the likelihood of contaminating the public water supply	Carry out the assessment & implement any recommendations of the assessment.	June 2014	Water Services
V	10	Undertake assessment to determine compliance of storm overflows to the DoEHLG 'Procedures & criteria in Relation to Storm Overflows' 1995.	Ensure compliance of storm overflows	Carry out the assessment & implement any recommendations of the assessment.	June 2014	Water Services
VI	3	Document the ferric bund and ferric tank visual inspections. Carry out a hydrostatic test on the ferric bund.	Reduce the likelihood of bund or tank failure.	Create a checklist for caretakers to use. Bund test to be carried out.	June 2014	Water Services
VII	3	Continue to monitor the influent monthly.	Assist to identify any shock loads.	Continue to monitor the influent monthly.	Ongoing as part of licence requirements	Water Services

Risk I.D.	Risk Score	Mitigation measure to be taken	Outcome	Action	Date for completion	Owner/Contact Persons
VIII	6	Put in place an emergency response procedure for emergencies such as spillages, fire, prolonged power failure & key equipment failure.	Assist in reducing the severity of any environmental incidents.	Put in place an emergency response procedure.	June 2014	Water Services
IX	2	Put in place a SOP for chemical deliveries.	Assist in preventing spillages	Put in place a SOP for chemical deliveries.	June 2014	Water Services
X	2	Put in place a formal environmental complaints procedure should odour/noise complaints arise.	Ensure that complaints are handled appropriately.	Put in place a formal documented environmental complaints procedure.	June 2014	Water Services
XI	2	The neighbouring dwelling is to be connected to a nearby group water scheme.	Well on site will no longer be a water source for the neighbouring dwelling.	Complete the new connection to the neighbouring dwelling.	June 2014	Water Services
XII	8	Put in place a flood emergency procedure as part of the sites emergency procedures.	Ensure that potential floods would be handled appropriately.	Put in place a flood emergency procedure.	June 2014	Water Services



## **SECTION 6:**

### **LICENCE SPECIFIC REPORTS**

**SECTION 6: LICENCE SPECIFIC REPORTS**

<i>Licence Specific Reports</i>	<i>Required in 2012 AER</i>	<i>Included in 2012 AER</i>	<i>Location in 2012 AER</i>
<i>Priority Substances Assessment</i>	No	No	Report Not Required
<i>Drinking Water Abstraction Point Risk Assessment Report</i>	No	No	Report Not Required
<i>Shellfish Impact Assessment Report.</i>	No	No	Report Not Required
<i>Toxicity / Leachate Management.</i>	No	No	Report Not Required
<i>Toxicity of the Final Effluent Report</i>	No	No	Report Not Required
<i>Pearl Mussel measures Report</i>	No	No	Report Not Required
<i>Habitats Impact Assessment Report</i>	No	No	Report Not Required

## **SECTION 7:**

### **CERTIFICATION AND SIGN OFF**

**SECTION 7.1:****REPORT CHECK LIST (D0254-01)**

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 modifications to the existing WWDL? (See Condition 1.7 (changes to works/discharges) & Condition 4 (changes to monitoring location, frequency etc.)	No
List the reason (e.g. failure to complete specified works within dates specified in the licence, changes to monitoring requirements)	No
Have these processes commenced? (i.e. Request for Technical Amendment / Licence Review / Change Request)	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER?	No

**SECTION 7.2:****CERTIFICATION AND SIGN OFF**

As required under EPA Waste Water Discharge Licensing, I certify that the above report is true and accurate.

Prepared By: Declan Mooney & Enda Collins

Reviewed By: Enda Collins

Approved By:



**Gerry Boyle**

Senior Engineer

Environment and Water Services Section

Meath County Council