# SOUTH TIPPERARY COUNTY COUNCIL



# BALLYCLERIHAN WASTEWATER DISCHARGE LICENCE REGISTER NUMBER D0455-01

ANNUAL ENVIRONMENTAL REPORT

1st JANUARY 2013 to DECEMBER 31<sup>ST</sup> 2013

TABL	E OF CONTENTS	Page
1.0 11	NTRODUCTION and EXECUTIVE SUMMARY	4
1.1	Introduction	4
1.2	Executive Summary	5
2.0 N	ONITORING REPORTS SUMMARY	6
2.1	Summary report on Monthly Influent Monitoring	6
2.2	Discharges from the Agglomeration	8
2.3	Ambient Monitoring Summary	12
2,4	Data Collection and Reporting Requirements under the UWWT Directive	13
2.5	Pollutant Release and Transfer Register	13
3.0 C	DPERATIONAL REPORTS SUMMARY	14
3.1	Treatment Efficiency Report	14
3.2	Treatment Capacity Report	14
3.3	Complaints Summary	15
3.4	Reported Incidents Summary	15
4.0 IN	IFRASTRUCTURAL ASSESSMENT & PROGRAMME OF IMPROVEMENTS	16
4.1	Storm Water Overflow Identification and Inspection Report	16
4.2	Report on progress and proposals to meet the Improvement Programme requirements	16
4.3	Sewer Integrity Risk Assessment	16
5.0 LI	CENCE SPECIFIC REPORTS	17
5.1	Priority substances assessment	17
5.2	Outstanding Reporting Requirements	17
6.0	CERTIFICATION & SIGN OFF	18
APPE	NDIX A – AER/PRTR Emissions Data	19
APPE	NDIX B – Sewer Integrity Risk Assessment	20

List of Tables		Pag
Table 1	Wastewater treatment plant influent monitoring results.	6
Table 2	Flow weighted average Influent BOD calculation sheet.	7
Table 3	Effluent monitoring results	8
Table 4	Summary of the effluent monitoring and compliance	10
Table 5	Primary discharge point daily flow recordings	11
Table 6	Ambient monitoring results – Upstream	12
Table 7	Ambient monitoring results – Downstream	12
Table 8	Ambient monitoring summary table	13
Table 9	Treatment efficiency report summary table	14
Table 10	Treatment capacity report summary table	14
Table 11	Complaints summary	15
Table 12	Incidents summary	15
Table 13	Incident detail summary per EPA guidelines	15
Table 14	SWO Identification and Inspection Summary Report	16
Table 15	Summary of Sewer Integrity Risk Assessment	16

#### 1. INTRODUCTION AND EXECUTIVE SUMMARY

#### 1.1 Introduction

This is the fourth 'Annual Environmental Report' submitted to The Environmental Protection Agency with respect of the agglomeration named Ballyclerihan which was granted a Wastewater Discharge Licence Register No D0455-01 on 10<sup>th</sup> June 2010. Condition 6.10 of the Licence requires the Council to submit on an annual basis an 'Annual Environmental Report' (AER) to provide a summary of activities relevant to the discharges for that year. This fourth Annual Environmental Report (AER) for the Ballyclerihan Wastewater Treatment Plant includes the information specified in Schedule D of the licence.

This AER has been prepared in accordance with the Environmental Protection Agency (EPA) document: - "Guidance on the Preparation & Submission of the Annual Environmental report (AER) for Waste Water Discharge Licences for 2013".

The Ballyclerihan Wastewater Treatment Plant is in the village of Ballyclerihan, Co. Tipperary located between Cashel and Clonmel, with the waste water treatment plant located approximately 700m south west of the village.

The sewage network is generally a combined system, with the more recent housing developments installing separate foul and surface water systems. The sewage generally flows by gravity to a pumping station located within the site of the WWTP. The plant operates an activated sludge process including screening, grit removal, storm treatment, aeration and final clarification.

The plant operates to a high performance specification (10:125:10 for BOD:COD:SS) using tertiary treatment and nutrient removal. This level of treatment is required due to the limited dilution capacity of the receiving waters. The treated effluent is discharged through an open pipe to the Knockeevan river (primary discharge point SW1), a tributary of the River Suir.

#### 1.2 Executive Summary

The Ballyclerihan wastewater treatment plant has continued to operate effectively in this reporting period. The treatment plant is operated and managed on behalf of South Tipperary County Council by AECOM Ltd under a 20 year DBO contract agreement.

A review of the final effluent results and compliance with the Emission Limit Values set out in licence shows that there was no exceedence of the ELV for BOD which had an average effluent value of 2.0 mg/l against an ELV of 10 mg/l while Suspended Solids and COD had mean effluent values of 4.75 mg/l and 14.7 mg/l against ELV's of 10 mg/l and 125 mg/l respectively. The average effluent value for Ammonia was 0.1 mg/l against an ELV of 1mg/l. The average effluent values for TN and TP were 5.94 mg/l and 0.41 mg/l respectively.

The total influent flow for the year was 39,471 m3 while the current flow weighted average influent BOD to the plant is 429 mg/l giving a current pe loading of the plant of 774 pe. This compares with a plant design of 2,000 pe.

The average daily flow for the year was 108 m3 /day against a plant design of 449 m3/day which indicates that the plant is operating within it's hydraulic and treatment capacities.

There were two exceedences in the final effluent value for Soluble Reactive Phosphorus in this reporting period. These occurred in June and November. The annual mean value was 0.32 mg/l against an ELV of 5 mg/l.

A review of the ambient monitoring results for upstream and downstream of SW1 indicates that the discharge is having no adverse impact on the quality of the receiving waters. Small Stream Risk Score assessments carried out upstream and downstream of the outfall were similar, indicating no adverse impacts from the discharge.

The percentage reductions shown in the treatment efficiency report summary (Section 3) show that reductions of 99.6%, 98.8% and 99% were achieved in BOD, COD and Suspended Solids respectively.

A reduction of 99% was achieved in the Ammonia levels while nutrient removal efficiencies for TP and TN were 97% and 93% respectively.

An interpretation and analysis of the final effluent results is given in Section 2.2 of this report.

#### 2.0 MONITORING REPORTS SUMMARY

#### 2.1Summary report on monthly influent monitoring

Table 1 below is a tabular presentation of the wastewater treatment plant influent monthly monitoring results for 2013 for BOD, COD, Suspended Solids, Ammonia (as N), Total Nitrogen, Total Phosphorus and pH. Also set out below is the calculation of the pe equivalent load and the flow weighted average BOD load for the WWTP.

Table 1: Waste water treatment plant influent monitoring results for 2013

	Flow M³/Day	cBOD 5d with nitrification inhib mg/l	Oxygen Demand (COD)	Suspended Solids mg/l	pH Value pH unit	Ammonia Nitrogen (as N) mg/l	Total Phosphorus (as P) mg/l	Total Nitrogen (as N)
ELV	m3	10mg/l	125 mg/l	10 mg/l	6 to 9	1 mg/l	mg/l	20 mg/l
08/01/2013	108	575	1,343	697	7.4	49.1	12.61	80.6
07/02/2013	138	278	636	348	7.3	32.8	7.87	49.5
05/03/2013	64	450	1,225	503	7.5	63.1	12.81	89.2
09/04/2013	81	760	1,802	988	8.1	67.2	16.91	104
08/05/2013	157	133	396	138	8.4	45	9.33	71.7
11/06/2013	133	565	1,265	654	7.4	62.8	14.4	92.4
02/07/2013	90	640	1,592	823	7.4	71	16.9	99.7
13/08/2013	85	340	657	261	7.6	74.6	14.41	93.6
03/09/2013	75	370	753	263	7.5	70.8	13.31	92.2
08/10/2013	93	500	1,123	695	7.4	44.3	12.4	68.9
05/11/2013	96	330	625	264	7.8	49.3	11.8	70.7
03/12/2013	85	440	1,079	368	7.5	61.7	13.91	85.7
No of Samples	12	12	12	12	12	12	12	12
Annual Max	157	760	1802	988	8.40	74.60	16.91	104.00
Annual Mean		477	1041	500	7.61	57.64	13.06	83.18

### Calculation of the Population Equivalent load to the WWTP

The total influent for the year 2013 was 39,537m3. The average daily influent flow was 108m3.

The flow weighted averaged influent BOD as calculated per Table 2 below is 429 mg/l

Ballyclerihan population equivalent was determined by the following formula:

Total Influent Flow for 2013 x flow-weighted averaged influent BOD divided by (0.06x365x1000).

Therefore the PE =  $(39,537 \times 429) / (0.06 \times 365 \times 1000) = 774$ 

Table 2: Calculation of the flow weighted average BOD for 2013.

Sample date	Flow (m3/day)	cBOD (mg/l)	cBOD (Kg)
08/01/2013	108	575	62
07/02/2013	138	278	38
05/03/2013	64	450	29
09/04/2013	81	760	62
08/05/2013	157	133	21
11/06/2013	133	565	75
02/07/2013	90	640	58
13/08/2013	85	340	29
03/09/2013	75	370	28
08/10/2013	93	500	47
05/11/2013	96	330	32
03/12/2013	85	440	37
Total	1205		518

The flow weighted average BOD is 518 Kg  $\times$  1,000 / 1205 m3 = 429 mg/l

## 2.2 Discharges from the agglomeration

Presented below in Tables 3 and 4 are the primary discharge point monitoring effluent results for the parameters as set out in Schedule B of the licence and a summary of the effluent monitoring and overall compliance with the licence Emission Limit Values (ELV's).

Table 3: Tabular presentation of the Ballyclerihan Wastewater Treatment Plant effluent monitoring results with the associated Emission Limit Values (ELV's).

	Cbod 5d with Nitrification Inhib (mg/l)	Chemical Oxygen Demand (mg/l)	Suspended Solids (mg/l)	pH Value (unit)	Ammonia Nitrogen (as N) mg/I	Soluble Reactive Phosphorus (mg/l)	Total Phosphorus (as P) mg/I	Total Nitrogen (as N) mg/l
ELV	10 mg/l	125 mg/l	10mg/l	6 to 9	1 mg/l	0.5 mg/l	mg/l	20mg/l
8/1/2013	2	18	4	7.8	0.1	0.11	0.21	3
7/2/2013	2	15	8	8	0.1	0.09	0.2	5.6
5/3/2013	2	15	5	7.6	0.1	0.03	0.06	12.3
9/4/2013	2	15	6	7.8	0.1	0.03	0.13	12.4
8/5/2013	2.	18	8	7.6	0.1	0.06	0.2	2.1
11/6/2013	2	18	4	7.9	0.1	2.13	2.32	2.9
23/7/2013	2	15	3	7.8	0.1	0.29	0.3	2.7
13/8/2013	2	15	5	7.9	0.1	0.04	0.1	2.2
3/9/2013	2	15	3	7.8	0.1	0.06	0.11	5.1
8/10/2013	2	15	4	7.9	0.1	0.09	0.14	3.4
5/11/2013	2	15	3	7.9	0.1	0.58	0.67	4.3
3/12/2013	2	17	4	7.8	0.1	0.31	0.45	15.3
No of Samples	12	12	12	12	12	12	12	12
Annual Max	2	18	8	8	0.1	2.13	2.32	15.3
Annual Mean	2	14.7	4.75	7.8	0.1	0.32	0.41	5.94

Table 3 cond: Ballyclerihan Plant effluent monitoring for OFG, Faecal Coliform and Conductivity 2013.

	OFG	Faecal Coliform	Conductivity
	Mg/I Cke 083	MPN per 100 mls	@25deg C
8/1/2013	nt	<3	701
7/2/2013	nt:	<3	916
5/3/2013	<5	<3	944
9/4/2013	nt	<3	1146
8/5/2013	nt	<3	836
11/6/2013	nt	<3	560
23/7/2013	nt	<3	913
13/8/2013	nt	<1	842
3/9/2013	<5	<0.3	711
8/10/2013	nt	<3	681
5/11/2013	nt	<3	523
3/12/2103	nt	<3	749
No of Samples	2	12	12
Annual Max	< 5	<3	1146
Annual Mean	<5	2.6	794

**Table 4: Summary of the Effluent Monitoring and Compliance** 

	BOD	COD	SS	TN	pH	Ammonia	Ortho P
WWDL ELV	10 mg/l	125 mg/l	10 mg/l	20 mg/l	6 to 9	1 mg/l	0.5 mg/l
No of sample results	12	12	12	12	12	12	12
No of sample results above ELV	0	0	0	0	0	0	2
No of sample results above ELV with Condition 2 interpretation.	0	0	0	0	0	0	1
Overall Compliance	Pass	Pass	Pass	Pass	Pass	Pass	Fail

## Interpretation and analysis of results:

A review of the final effluent results for 2013 shows that there were 2 exceedences in the ELV for Soluble Reactive Phosphorus . These occurred on the 11/06/2013 and 5/11/2013.

The effluent value on the 11/6/2013 was 2.13 mg/l against an ELV of 0.5 mg/l. On a review of the operation and maintenance records for the year it was noted that there was a slight fault with the dosing line for the ferric at that time. It also co-incided with a high influent TP load at the time. The second exceedence on the 5/11/2013 was within the allowable range by interpretation of Condition 2 of the licence. The Soluble Reactive Phosphorus exceedence for 11/06/2013 was reported to the EPA via EDEN.

Table 5 : Ballyclerihan WWTP: Primary point daily flow recordings (m3/day) for 2013 as required under Schedule B (Monitoring) of the Discharge Licence.

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	135	132	66	78.5	69	59	72.5	214	71	76	38	84
2	105	115	50	73	56	69	75	89	71	194	46	84
3	84	66.5	70	58	67	69	62	92	57	184	98	73
4	76	66.5	70	42	113	81	50	139	59	152	98	75
5	107	217	61	25	68.5	50	47	139	61	86	87	65
6	97	83	76	64	68.5	57	42	64	64	70.5	157	38
7	97	115	87	68.5	75	55	50	60	71	70.5	84	38
8	95	64	45.5	68.5	137	55	50	54	109	80	85	67
9	52	115	45.5	66	99	63.5	74	73	109	65	79	67
10	35	125	125	67	79	63.5	58	73	62	71	190.5	74
11	23	125	125	142	73	118	50	62.5	65	61	190.5	85
12	101	85	66	100	85.5	58	53	62.5	65	78.5	225	76
13	81.5	90	78	69	85.5	108	45	68	36	78.5	26	95
14	81.5	188	76	96	74	78	67	62	90	57	60	115
15	74	84	91	96	75	128	67	106	92.5	59	186	107
16	137	68	93	113	66	141.5	54	91	92.5	249	72	107
17	84	83	74.5	136	76	141.5	85	83	71	117	96	108
18	372	83	74.5	75	88	70	27	63.5	167	186	96	96
19	124	67	77	91	75.5	74	18	63.5	77	250	82	275
20	95	64	56	70	75.5	56	66	57	65	164.5	85	64
21	95	75	132	128	93	61	56.5	44	50	164.5	63	189
22	82	58	339	128	48	73	56.5	56	77	208	54	243
23	64	72	274	63	67	74	89	66	77	124	112	243
24	75	66	89	84	74	74	70	88	49	111	62	164
25	120	66	89	90	87	56	170	72	45	437	62	133
26	437	62	161	61	113.5	67	62	72	77	205	77	133
27	168.5	60	74	68	113.5	55	25.5	70	60	205	68	191
28	168.5	68	73	72	109	44	25.5	76	64	133	64	104
29	114		76.5	72	87	65	75	62	93.5	154	75	297
30	112		76.5	69	63	72.5	60	60	93.5	60	63	297
31	75		78.5		71		214	68		47		331

#### 2.3 Ambient monitoring summary

The ambient monitoring results for the parameters as set out in Schedule B of the licence is presented in table No 6 (Upstream) and table No 7 (Downstream) below. Also presented in Table 8 is a summary of the ambient monitoring. The monitoring results show that the discharge is not having any significant impact on the quality of the receiving waters.

Table 6: Ambient monitoring at aSW-I U upstream of SW I (216318E, 128307N)

Sample Date	Ammonia mg/l as N	BOD mg/I O2	D O Mg/I O2	OrthoP (mg/l)	рН	Temperture deg C	Total Nitrogen
12/02/2013	0.1092	<1	10.93	0.05	7.985	6.8	5
13/08/2013	2.86	15.6	3.5	0.8	7.69	16.5	5.4
17/10/2013	0.12	30.66	8.43	0.75	7.8	12.3	1
19/11/2013	0.01	0.3	11.1	0.023	8.027	6.2	4.4
Max Value	0.77	15.52	8.49	0.41	7.88	10.45	3.95
Average Value	2.45	29.15	11.07	0.79	8.02	15.87	5.34

Table 7: Ambient monitoring at aSW-Id downstream of SW I (216434E, 128346N)

Sample Date	Ammonia mg/I as N	BOD mg/l O2	D O Mg/I O2	OrthoP (mg/l)	pH Value	Temperature deg C	Total Nitrogen
12/02/2013	0.098	<1	10.72	0.05	7.936	6.7	3.2
13/08/2013	0.33	1.3	3.7	0.072	7.4	16.5	2
17/10/2013	0.24	4.55	4.36	0.116	7.56	12.1	3.2
19/11/2013	0.04	0.43	9.9	0.116	7.937	5.6	4.9
Max Value	0.177	2.0933	7.17	0.0885	7.708	10.225	3.325
Average Value	0.3165	4.225	10.597	0.116	7.937	15.84	4.645

**Table 8: Ambient Monitoring Summary Table** 

Ambient Monitoring	Irish Grid Reference	EPA Feature Coding	Is discharge impacting
Point from WWDL	The state of the s	Tool code	on water quality?
aSW-IU upstream of SW1	216318E, 128307N	TBC	No
aSW-ID downstream of SW1	216434E, 128346N	TBC	No

#### Small Stream Risk Score (SSRS):

An SSRS was carried out in 2013, the results of which are presented below.

Ballyclerihan WWTP SSRS Scoring	SSRS Score
Upstream	4
Downstream	4

The results above show that there is no deterioration to the SSRS score downstream from the effluent discharge point.

#### 2.4 Data and reporting requirements under the Urban Waste Water Treatment Directive

It is confirmed that the annual urban wastewater information for agglomerations and treatment plants with a population equivalent greater than 500 for the year 2013 was submitted to the EPA in electronic form in the first quarter of 2014.

## 2.5 Pollutant Release and Transfer Register (PRTR)

This information has been submitted electronically to the EPA. Both the AER/PRTR Emissions Data information (i.e all relevant worksheets including the Facility ID and Activities sheet) for the Ballyclerihan Agglomeration has been printed out and included in this AER -see Appendix A attached.

#### 3.0 OPERATIONAL REPORTS SUMMARY.

## 3.1 Treatment Efficiency Report

Presented below is a summary of the efficiency of the treatment process including the percentage reductions in influent loads for parameters specified in the licence.

**Table 9: Treatment Efficiency Report Summary Table** 

	cBOD 5d with nitrification inhib	Chemical Oxygen Demand (COD)	Suspended Solids	Ammonia Nitrogen (as N)	Total Phosphorus (as P)	Total Nitrogen (as N)
Influent mass loading (Kg/day)	51.5	112.4	54	6.23	1.41	8.98
Effluent mass emission (Kg/day)	0.20	1.4	0.44	0.01	0.04	0.6
% Efficiency (% reduction of influent load)	99.6%	98.8%	99%	99%	97%	93%

### 3.2 Treatment Capacity Report

Presented below is a summary of the current and remaining treatment capacity of the treatment process.

**Table 10: Treatment Capacity Report Summary Table** 

Hydraulic Capacity – Design	449 m3 /day
Hydraulic Capacity – Current Loading	108 m3 /day
Hydraulic Capacity – Remaining	331 m3 / day
Organic Capacity – Design (pe)	2,000 pe
Organic Capacity – Current Loading (pe)	774 pe
Organic Capacity – Remaining (pe)	1,226 pe
Will the capacity be exceeded in the next 3 years	No

### 3.3 Complaints summary

There were no complaints of an environmental nature related to the discharge to water from the Ballyclerihan Wastewater treatment Plant in 2013.

Table 11: Complaints

Number	Date and Time	Nature of Complaint	Cause of Complaint	Actions taken to resolve issue	Closed (Y/N)
N/A	N/A	None	None	N/A	N/A

### 3.2 Reported Incidents Summary

There was one recorded incident in relation to an exceedence of Soluble Reactive Phosphorus at the Ballyclerihan Wastewater Treatment Plant in 2013. This was reported to the EPA via EDEN.

Table 12: Incidents Summary

Date and Time	Incident Description	Cause	Corrective Action	Authorities Contacted	Reported to EPA	Closed (Y/N)
2013	Ortho P Exceedence	High influent and ferric dosing fault.	Dosing unit repaired	STCC	Yes	Yes

Table 13: A summary of the incident details as required in the EPA reporting guidelines is set out below

No of Incidents in 2013	None
Number of Incidents reported to the EPA via EDEN in 2013.	One
Explanation of any discrepancies between the Two numbers above.	N/A

#### 4.0 INFRASTRUCTURAL ASSESSMENT & PROGRAMME OF IMPROVEMENTS

## 4.1 Report on Storm Water overflow identification and inspection.

This report was compiled and submitted to the EPA in the 2011 AER submission. A summary report is detailed in table No 14 below.

Table 14: SWO Identification and Inspection Summary Report Table

Is each SWO Identified as non complaint with DoEHLG included in the Programme of Improvements	No SWO Identified as non-complaint
Does the SWO assessment include the requirements of Schedule A3 and C3	No Improvement works specified in the Licence
Has the EPA been advised of any additional SWO's / changes to Schediule CE and A4 under Condition 1.7	No additional SWO's / changes to Schedule C3 and A4 under Condition 1.7 required or identified.

#### 4.2 Report on progress made and proposals to meet the Improvement Programme Requirements

There are no Improvement Works requirements specified in Schedule C of the Discharge Licence and there are no proposals in respect of any future improvement works developed at this time.

#### 4.3 Sewer Integrity Risk Assessment.

A Sewer Integrity Risk Assessment for this agglomeration was completed in this reporting period and is attached in Appendix B. A summary of the risk assessment is presented in table 15 below. Funding is being sought through budget submissions for 2014 for funds that will allow a more comprehensive and detailed assessment to the standards set out in the Sewer Integrity Risk Assessment Tool facility.

Table 15: Summary of Sewer Integrity Risk Assessment:

Element	Risk Ass Score	Risk Category	% Risk Score	Max Risk Score
Section 2.1 Hydraulic Risk Assessment	145	High	97 %	150
Section 3.1 Env Risk Assessment	115	Low	23 %	500
Section 4.1 Structural Risk Assessment	150	High	100 %	150
Section 5.1 O and M Risk Assessment	16	Low	8%	200
Total RAS for Network	426	High	43 %	1000

#### 5.0 LICENCE SPECIFIC REPORTS

#### 5.1 Priority Substances Assessment

The requirement for a risk based assessment to identify the possible presence of priority substances is not specifically set out in the Discharge Licence. However the licensee has prepared and submitted to the Agency (EPA) the PRTR report for 2013 – see attached Appendix A.

#### 5.2 Outstanding Reporting Requirements (Previous AER's)

#### 5.2.1 Monitoring Results (2012)

Presented below are the monitoring results for Conductivity that were omitted from the 2012

AER report submission. All monitoring results for Conductivity for 2013 are included in this AER submission. The results for Conductivity for 2012 would have been submitted electronically to the EPA. Results for OFG and Faecal Coliform for 2013 are also included in this AER submission. The inclusion of these parameters should ensure all future reporting requirements in respect of the discharge are met.

#### Monitoring Results for Conductivity ( @25deg C ) for 2012:

Date	Conductivity (Us/cm)	Date	Conductivity (Us/cm)
10/01/2012	714	05/07/2012	520
07/02/2012	904	21/08/2012	624
13/03/2012	869	04/09/2012	901
11/04/2012	712	02/10/2012	776
01/05/2012	739	06/11/2012	634
14/06/2012	618	11/12/2012	787

### 6.0 CERTIFICATION AND SIGN OFF

I certify that this Annual Environmental Report (AER) for the reporting year 2013 for the Waste Water Discharge Licence No D0455-01 in respect of the Ballyclerihan Agglomeration is representative and accurate.

Signed

Dated: 28/04/14

Mr Jimmy Harney

**Acting Director of Services** 

**Environment and Water Services** 

**South Tipperary County Council** 

# APPENDIX A

**AER/PRTR Emissions Data** 



Guidance to completing the PRTR workbook

# **AER Returns Workbook**

	Version 1.1.17
REFERENCE YEAR	2013
TO THE WAS THE CONTRACTOR OF THE PARTY OF TH	
1. FACILITY IDENTIFICATION	
	South Tipperary County Council
Facility Name	
PRTR Identification Number	
Licence Number	D0409-01
Waste or IPPC Classes of Activity	
No.	class name
	General
THE PARTY OF THE P	
	County Hall
Address 2	
	County Tipperary
Address 4	Seculation
	Tipperary
Country	
Coordinates of Location	
River Basin District	
NACE Code	
Main Economic Activity	
AER Returns Contact Name AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	9.0
Number of installations	0
Number of Operating Hours in Year	0
Number of Employees	8
User Feedback/Comments	improved plant performance resulting in lower average final effluent values together with lower hydraulic loading
	gave lower total loads for 2013 compared to 2012 for TN,BOD,COD,SS,Ammonia. Higher TP influent resulted in
	higher total loads for TP and Ortho P for 2013 compared with 2012.
Vanish and the second s	TO CONTROL OF THE CON
Web Address	
A DOTO OF 100 TOTALITIES	
2. PRTR CLASS ACTIVITIES	Activity Name
Activity Number 5(f)	Urban waste-water treatment plants
0807	Dipan waste-water nearlier binus
3, SOLVENTS REGULATIONS (S.I. No. 543 of 2	002)
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 disposa	
activities) 7	
	This question is only applicable if you are an IPPC or Quarry site
sile freatment (either recovery or disposal activities) 7	

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PETRE: DOGGE FALAN

Link to previous years emissions data

4.2 RELEASES TO WATERS

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		Contract	Coor			The second second	The second second
THE PERSON NAMED IN COLUMN 1	Number	MACH Method Code Design	nation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
The second secon				0	0	0.0	0.0

g on the Pollutant Name (Column B) then click the delete button

	RELEASES TO WATERS				Please enter all quanti	ties in this section in NG	OUMNTITY	
	POLLUTANT							
				Method Used			The second second	Section 1
Anna Maria	Minne	MACUE	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Ye
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	Cuspergee some	2	DIA	Slanderd		3.65 3.65	0.0	0.0
	Commonwealth to Pa	2	-HLO	Standard	1			

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | | PROTECTION | Part |

			Please enter all	Please enter all quantities on this sheet in Tonnes		200				170		2	
			Quantity (Tontres per Year)				Method Used		Har Wasse : Name and LibertoalPoints No of Need Destration Facility Mary Wasse for Name and LibertoalPoints No of Recover[Disposer	Has Waste: Address of Next. Destination Facility Nor Haz Waste. Address of RecoverChaptese	Name and Loese (Perns No. and Address of Final Recovers?) Deposer (MAZARDOUS WASTE CORLY)	Actual Address of Final Destination is Final Recovery i Despossi Ste (HAZARDOUS WASTE CALLY)	
					Waste								
	European Waste				Treatment	44		Location of					
Transfer Destination	Code	Hazardous		Description of Waste	Operation	MCK	Operation MC/E Method Used	Treatment					
									Mr	Luddenmore, Grange, Kilmail			
Within the Country 19 08 01	19 08 01	No	1.17 st	1.17 screenings	80	M	Weighed	Offsite in Ireland	Offsite in Ireland Binman, WFP/LK/2009/100	ock,Co Limenick,Ineland			
			is.	sludges from treatment of urban waste						Clanmel, Co			
Willrin the Country 19 08 05	19 08 05	No	8.85 water	vater	28	M	Weighed	Offsite in Ireland Clonmei WWTP,		Tipperary,,Ireland			
			W)	sludges from treatment of urban waste						Fethard, Co			
Within the Country 19 08 05	19 08 05	No	1.73 water	vater	90	M	Weighed	Offsite in Ireland Fethard WWTP,	Fethard WWTP,	Tipperary, Ireland			
			**	sludoes from freatment of urban weste					OD Recycling WFP-TS-10. Ballyboe Kilsheelan Clonmel	Salvboe Kilsheelan Conmel			
Within the Country 19 08 05	19 08 05	No	2.8 water	vater	De	M	Weighed	Offsite in Ireland 3002-02	0002-02	.Co. Tipperary,ireland			
		- Control of the last	Control of the Control of the Control	· Course a comment of the second with the properties of the ball of the second will be second to the second of									

Link to previous years waste data Link to previous years waste summary data & percentage change Link to Waste Guidance

APPENDIX B

Sewer Integrity Risk Assessment

	Section 1.1 Agglomeration Details Name	Ballyclerihan DO455-01 Insert Catchment Name (e.g., Downtown Pumping Station network), Refer to Guidance Notes for rules on division of large						
	Licence Number							
	Insert Name of Catchment if the Risk Assessment is for part of an agglomeration (only divide agglomeration where p.e. >5,000p.e. and where such division is warranted)		uidance Notes					
	Date Licence Issued		10/0	06/2010				
	Current Date			2/2014				
			Year	Year	Year	Year		
4.4	Waste Water Works - Wastewater Treatment Plant Details Is there an existing WWTP in operation?	Unit	2013	2015	2018	2021		
1.1			Yes	Yes	Yes	Yes		
	Section 1.2 BOD Loading & Population Equivalent Average Daily Influent Flow or Average Total Flow in system (If no			10000		107/0-		
1.2	measured data exists, insert estimated figure)	I/day, measured	108000					
6.76	Average Daily Influent BOD or Average BOD Load from area served	i/day, measured	108000					
1.3	(If no measured data exists, insert estimated figure)	mg/l, measured	429					
1.4	Total BOD Load	kg/day	46,332					
1.5	Average Population Equivalent (@0.06kg/person/day)	p.e.	772					
1.6	Estimated (existing) Non-Domestic Load	p.e.	20					
1.7	Estimated Domestic Load	p.e.	752					
1.8	Occupancy Rate for the Agglomeration	pop/house	2.92					
1.9	Estimated Number of Connected Properties	houses	258					
1.10	Number of properties within the agglomeration when compared with	0.00000000	5/589					
10.000	CSO Data or An Post Geodirectory	houses	241					
	Section 1.3 Hydraulic Details							
1.11	Average Dry Weather Flow arriving at WWTP OR Total Average DWF							
4.11	in system (If no measured data exists insert estimated figure)	AL SIGNALLY	0.00					
1.12	Estimated 3DWF	1/s, measured 1/sec	0.89 2.67					
Carrent	Annual Average Peak Flow to WWTP or discharging from whole	1/8eG	2.07					
1.13	system if there is no existing WWTP	l/s, measured	3.64					
1.14	This Annual Average Peak as Multiples of Dry Weather Flow (Peaking	Nr.	4.09					
1.15	Highest Peak Flow Recorded (Insert UNKNOWN if no records exist)	l/s	5.47					
- ALIANIES		110	0.47					
1.16	Does this Peak Flow (multiple of DWF) cause hydraulic capacity problems within the network?		Yes	Yes	Yes	Yes		
-70701		- 200	1374	(10)(1)	107.5	7.44		
1.17	Total Rainfall for Previous Year	mm	953					
1.18	Comparison - Mean Annual Rainfall for the adolomeration	mm	1029					
1.18.1	Define the Weather Station Used If Storm Water Storage is available at the Wastewater Treatment		Moore Park					
1.19	plant, what is the volume of the storm tank?	m³	112.32					
W-3-16	MARKET AND THE OUT TO A TOTAL OF THE PARTY O	- 00	112.02					
1.20	Is the capacity of the storm tank sufficient to capture and retain all	244	No	No	No	No		
	overflows to the tank 7			1.100	110	110		
1.21	Total monthly average volume of Storm Water Stored or Returned for							
1.21	Treatment within the Waste Water Treatment Plant	m <sup>3</sup> per month	15					
			- 11					
1.22	If the answer to 1.20 above is No, What is the estimated frequency of		< 1 per month	< 1 per	1 to 2 times	< 1 per		
1.22	Overflows from the Storm Tank ? (N/A if no overflow)		< 1 per month	< 1 per month	1 to 2 times per month	< 1 per month		
1.22	Overflows from the Storm Tank ? (N/A if no overflow)	3.5411	E 104536 M 2000 M 2	month	per month	month		
1.22	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details	Unit	< 1 per month 2013					
1.22	Overflows from the Storm Tank ? (N/A if no overflow)	Unit	E 104536 M 2000 M 2	month	per month	month		
1/200	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details	Unit	2013	2015	per month	2021		
1.22	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details	Unit	E 104536 M 2000 M 2	month	per month	2021		
1/200	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details	Unit	2013	2015	per month	2021		
1/200	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details	Unit Describe	2013	2015	per month	2021		
1.23	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe		2013	2015	per month	2021		
1.23	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down manus to define whether these		2013 Mapdrain	2015 SUS 2001	2018 SUS 2002	2021 SUS 200		
1.23	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe	Describe	2013	2015	per month	2021		
1.23	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)	Describe km Estimated	2013 Mapdrain	2015 SUS 2001	2018 SUS 2002	2021 SUS 200		
1.23 1.23.1 1.24	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down manus to define whether these	Describe	2013 Mapdrain	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)	Describe km Estimated	2013 Mapdrain 4.50	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23,1 1.24 1.24,1 1.24,2	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter	Describe km Estimated km Estimated	2013 Mapdrain	2015 SUS 2001	2018 SUS 2002	2021 SUS 200		
1.23 1.23,1 1.24 1.24,1	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter	Describe km Estimated km Estimated	2013 Mapdrain 4.50 0.00	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter	Describe km Estimated km Estimated km Estimated	2013 Mapdrain 4.50	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23,1 1.24 1.24,1 1.24,2	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter	Describe km Estimated km Estimated km Estimated	2013 Mapdrain 4,50 0.00 0.80 1,20	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter	Describe km Estimated km Estimated km Estimated km Estimated	2013 Mapdrain 4.50 0.00	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23,1 1.24 1.24,1 1.24,2 1.24,3	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter	Describe km Estimated km Estimated km Estimated km Estimated km Estimated	2013 Mapdrain 4.50 0.00 0.80 1.20	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but < 450mm in Diameter  Total length of sewers > 225mm but < 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter	Describe km Estimated km Estimated km Estimated km Estimated	2013 Mapdrain 4,50 0.00 0.80 1,20	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated	2013 Mapdrain 4.50 0.00 0.80 1.20 2.50 0.25	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material  What portion of the sewer network consists of Concrete Pipes	Describe km Estimated km Estimated km Estimated km Estimated km Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.1	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material  What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipes	Describe km Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25% 75%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.2 1.25.2 1.25.3	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but < 450mm in Diameter  Total length of sewers > 225mm but < 300mm in Diameter  Total length of sewers sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Clay materials	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25% 75% 0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1,23,1 1,24,1 1,24,2 1,24,2 1,24,3 1,24,4 1,24,5 1,25,1 1,25,1 1,25,2 1,25,1 1,25,3 1,25,4	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material  What portion of the sewer network consists of Concrete Pipes  What portion of the sewer network consists of Plastic Pipee  What portion of the sewer network consists of Clay materials  What portion of the sewer network consists of Pirick Type Sewers	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.2 1.25.2 1.25.3	Overflows from the Storm Tank ? (N/A if no overflow)  Waste Water Works - Sewer Network Details  Section 1.4 Waste Water Works - Gravity Sewer Details  What database is used to maintain records of the sewer network  If other or combination of the above please describe  Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but < 450mm in Diameter  Total length of sewers > 225mm but < 300mm in Diameter  Total length of sewers sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Clay materials	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25% 75% 0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1,23 1,23,1 1,24 1,24,1 1,24,2 1,24,3 1,24,4 1,24,5 1,25,1	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Srick Type Sewers What portion of the sewer network consists of Other Materials	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1,23,1 1,24,1 1,24,2 1,24,3 1,24,4 1,24,5 1,25,1 1,25,1 1,25,2 1,25,3 1,25,4 1,25,5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Srick Type Sewers What portion of the sewer network consists of Other Materials Total number of Storm Water Overflows	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1,23,1 1,24,1 1,24,2 1,24,2 1,24,3 1,24,4 1,24,5 1,25,1 1,25,1 1,25,2 1,25,1 1,25,3 1,25,4	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipee What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.5 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 225mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Brick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank)	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Plastic Pipee What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Plastic Pipes What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.5 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Ciay materials What portion of the sewer network consists of Sick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.5 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Ciay materials What portion of the sewer network consists of Sick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.5 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Ciay materials What portion of the sewer network consists of Sick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%  2	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24 1.24.1 1.24.2 1.24.3 1.24.4 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.5 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Ciay materials What portion of the sewer network consists of Sick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  2  SWO from	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.25.5 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.1	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the storm water overflows	Describe  km Estimated  km Estimated  km Estimated  km Estimated  km Estimated  km Estimated  % Estimated  % Estimated  % Estimated  % Estimated  Nr  Describe	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  2  SWO from storm tank at	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.25.5 1.25.1 1.25.3 1.25.4 1.25.5 1.25.5 1.25.5	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the storm water overflows	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Estimated	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  2  SWO from	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.25.5 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.25.1	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Brick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the storm water overflows  SWO No. SW2 located at Storm Tank at WWTP	Describe  km Estimated  km Estimated  km Estimated  km Estimated  km Estimated  km Estimated  % Estimated  % Estimated  % Estimated  % Estimated  Nr  Describe	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  2  SWO from storm tank at wwyrp	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.3 1.25.4 1.25.5 1.25.5 1.26.4 1.27	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the storm water overflows	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Describe	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%  2  SWO from storm tank at WWTP  SWO from PS	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.26 1.27	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Brick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the storm water overflows  SWO No. SW2 located at Storm Tank at WWTP	Describe  km Estimated  km Estimated  km Estimated  km Estimated  km Estimated  km Estimated  % Estimated  % Estimated  % Estimated  % Estimated  Nr  Describe	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  2  SWO from storm tank at wwyrp	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		
1.23 1.23.1 1.24.1 1.24.2 1.24.3 1.24.4 1.24.5 1.25.1 1.25.2 1.25.3 1.25.4 1.25.5 1.26 1.27	Waste Water Works - Sewer Network Details Section 1.4 Waste Water Works - Gravity Sewer Details What database is used to maintain records of the sewer network  If other or combination of the above please describe Total length of sewers (use drop down menus to define whether these figures are estimated or measured) Total length of sewers > 450mm Diameter  Total length of sewers > 300mm but ≤ 450mm in Diameter  Total length of sewers > 225mm but ≤ 300mm in Diameter  Total length of sewers ≥ 225mm in Diameter  Total length of sewers ≤ 225mm in Diameter  Other  Pipeline Material What portion of the sewer network consists of Concrete Pipes What portion of the sewer network consists of Clay materials What portion of the sewer network consists of Brick Type Sewers What portion of the sewer network consists of Other Materials  Total number of Storm Water Overflows (Enter '1' if none and state under Item 1.27 that there are no SWOs in the network; do not leave blank) What Screening or other mechanical devices are employed at the storm water overflows  SWO No. SW2 located at Storm Tank at WWTP	Describe km Estimated km Estimated km Estimated km Estimated km Estimated km Estimated % Estimated % Estimated % Estimated % Estimated % Estimated % Describe	2013  Mapdrain  4.50  0.00  0.80  1.20  2.50  0.25  25%  75%  0%  0%  0%  2  SWO from storm tank at WWTP  SWO from PS	2015 SUS 2001	2018 SUS 2002	2021 SUS 20		

	Where the receiving water is a river - indicate the EPA Biological				
1.28.1	Rating of the Receiving Water for each SWO below (Particularly If				
All CARRON	there is more than one receiving water within the agglomeration)				
	SWO No. SW2 located at Storm Tank at WWTP SWO No. SW3 located at PS at WWTP	Describe Describe	Q1 Q1		_
	SWO NO. SWS located at F3 at WWYF	Describe	- GI		
Harvestere	Where the receiving water is a coastal water indicate the Status of the				
1.28.2	Receiving Water for each SWO below (Particularly if there is more				
	than one receiving water within the agglomeration)				
		Describe	N/A		
1.28.3	With reference to the SWO's detailed above define if the receiving waters are sensitive in accordance with the Urban Wastewater				
1.20.0	Treatment Regulations as amended.				
_	SWO No. SW2 located at Storm Tank at WWTP	Describe	Sensitive		
	SWO No. SW3 located at PS at WWTP	Describe	Sensitive		
11/12/2017 07	With reference to the SWO's detailed above define are the receiving				
1.28,4	waters Protected Areas (designated or awaiting designation) .				
		Designation	-/-		
		Designation	n/a		
	With reference to the SWO's detailed above define do the receiving				
1.28.5	waters have any other designations.				
_	The product of the control of the co	Designation	Not Listed		
		Designation	NOT LISTED		
1.00	Section 1.5 Waste Water Works - Pumping Stations	100			
1.29	Number of Pumping Stations (operated by the Local Authority) Total Length of Rising Mains (operated by the Local Authority)	Nr km	2		-
1.31	Rising Main Material	Diff			
1.31.1	What portion of the rising mains consists of ductile iron pipes	% Estimated	100.00		
1.31.3	What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials	% Estimated % Estimated	0.00		-
1.32	Discharge Capacity of the Pump Set (s) at normal duty point	. March 1971 State 1970	1		
	At Pump station 1 at Hillview Housing Estate At Pump Station 2 at Fernville Housing Estate	l/sec	5	-	-
	What percentage of the pumping stations have recorded flow data (i.e.	1/500			-
1.33	if all pumping stations have flow meters on the rising mains then this	%			
	would read 100%)		0.00%		
1.34	Available Storage Capacity at Pump Stations				
11-83			10		
	At Pump station 1 at Hillview Housing Estate At Pump Station 2 at Fernville Housing Estate	m3 m3	10		
(a) (b)(1	Total Number of "Licenced Secondary Discharge Points and				
1.35	Stormwater Overflows" at pumping stations	N.			
		Nr	0		
1.36	Total Number of "Emergency Overflow Points" at pumping stations		50%		
1.10290	AND AND AND AND AN ARCHITECTURE AND AND AND AND AND AND AND ARCHITECTURE AND	Nr	2		
1.37	What Screening or other mechanical devices are employed at the				
1100	secondary discharge points or emergency overflows ?				
	At Pump station 1 at Hillview	Describe	None		
	At Pump Station 2 at Fernville	Describe	None		
1.38	Water Quality at the receiving waters at each pumping station location				
FAVARIES.	A CONTROL OF THE CONT	Describe	_		
	Where the receiving water is a river - indicate the EPA Biological				
1.38.1	Rating of the Receiving Water for each secondary discharge point or emergency overflow at each pumping station (Particularly if there is				
	more than one receiving water within the agglomeration)				
	At Pump station 1 at Hillview	Describe	N/A		
	At Pump Station 2 at Fernville	Describe	N/A		
	Where the receiving water is a coastal water indicate the Status of the				
1.38.2	Receiving Water for each secondary discharge point or emergency				
	overflow at each pumping station (Particularly if there is more than one receiving water within the agglomeration)				
			-		
	At Pump station 1 at Hillview At Pump Station 2 at Fernville	Describe Describe	N/A N/A		
	With reference to the pumping stations, for each secondary discharge	Describe	IN/A		
1.38.3	point or emergency overflow detailed above, define if the receiving				
MANUTE.	waters are sensitive in accordance with the Urban Wastewater				
	Treatment Regulations as amended. At Pump station 1 at Hillview	Describe	Not Listed		
	At Pump Station 2 at Fernville	Describe	Not Listed		
1.38.4	With reference to the pumping stations, for each secondary discharge				
1,38.4	point or emergency overflow detailed above, are the receiving waters Protected Areas (designated or awaiting designation).				
		Destar all a	1	 _	
	At Pump station 1 at Hillview	Designation	n/a		

173303	With reference to the pumping stations, for each secondary discharge					
1.38.5	point or emergency overflow detailed above, do the receiving waters					
	have any other designations.					
	At Pump station 1 at Hillview	Designation	Not Listed			
	At Pump Station 2 at Fernville	Designation	Not Listed			
1.39	Estimated Number of Private Pumping Stations within the					
1.39	agglomeration (not operated by the Local Authority)	Nr	1			
	Section 1.6 Reporting					
	AND MARKE AND RESERVED AND ADDRESS.					
	Section 1.6.1 Reported Number of Sewer Related Complaints					
1.40	Number of Reported Complaints	Nr	0			
1.41	Number of Reported Complaints which have been rectified	Nr	0			
_						
	Section 1.6.2 Reported/Recorded/Estimated Number of					
-411000	Secondary Discharges					
1.42	Number of Reported Secondary Discharges	Nr	0			
1.44	Number of Recorded Secondary Discharges  Estimated Total Number of Secondary Discharges	Nr Nr	0			
1.74-1	Estimated Total Number of Secondary Discharges	INI	9			
	Section 4.6.3 Deposits different addition to 4.10 miles of					
	Section 1.6.3 Reported/Recorded/Estimated Number of Emergency Overflow Discharges from Pumping Stations					
4.46		-	- 10			
1.45	Number of Reported Emergency Overflow Discharges	Nr.	0			
1.47	Number of Recorded Emergency Overflow Discharges Estimated Total Number of Emergency Overflow Discharges	Nr Nr	2			
1074	Extraction of Engineery Overflow Discharges	180	- 2			
	Control of the Contro					
	Section 1.7 Operational Staff					
	In the four boxes below, describe the extent of operation staff					
1.48	employed by the Local Authority to maintain and operate the sewer					
NOTE:	network and pumping stations					
78 90200						
1.48.1						
	No General Services Supervisor with essistance of General Operative as					
1.48.2	required. Also contracted sewer clean and jetting Contractor as required.					
1.48.3					_	
1.48.4						
	Waste Water Works - Investment Details	Unit	2013	2015	2018	2021
_	Section 1.8 Capital Investment works carried out since most					- 1 0000
	recent report (including works not included on WSIP Programme					
	or not WSIP funded)					
1.49	Sewers Upgraded or Replaced	m	0			
1.51	Sewers Rehabilitated Manholes Rehabilitated	m Nr	0			
1.52	Local Repairs	Nr	0			
HINDSON .		- 131	-			
1.53						
1.54	Total Length of sewers Upgraded, Replaced or Rehabilitated	m	0			
10.000	MADE INCOME AND ADDRESS OF THE PARTY OF THE	m	0			
	Pumping Stations Operated by Local Authority Upgraded or Repaired	m Nr	0			
1.55	MADE INCOME AND ADDRESS OF THE PARTY OF THE	Nr	0			
Nee	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced	(4/3)				
1.55	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment	Nr	0			
Nee	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced	Nr	0			
Nee	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment	Nr	0			
1.56	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.	Nr	0			
1.56.1	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.	Nr	0			
1.56	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.	Nr	0			
1.56.1	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None	Nr	0			
1.56.1	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.	Nr	0			
1.56.1	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None	Nr	0			
1.56.1 1.56.2	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works	Nr	0			
1.56.1	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None	Nr	0			
1.56.1 1.56.2	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None	Nr	0			
1.56.1 1.56.2 1.57	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56.1 1.56.2	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None	Nr	0			
1.56 1.56.1 1.56.2 1.57	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56.1 1.56.2 1.57	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59 1.60	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			
1.56 1.56.1 1.56.2 1.57 1.58 1.59 1.60	Pumping Stations Operated by Local Authority Upgraded or Repaired WWTW operated by Local Authority Upgraded or Replaced In the following two cells describe the actual Capital Investment undertaken in the reporting period.  None  Section 1.9 Licence Specified Improvements Works  None  Section 1.10 Other Updates Since Last Report	Nr	0			

	Section	z.1 Hydrau	IIC RISK A	ssessment	
Query	Description	Prompt	Risk Score	Short Commentary by the Local Authority	Comment or Action to be Taken
2.1	Has a Hydraulic Performance Assessment been, undertaken for the Sewer Network (e.g., Computer, Model or other Engineering Design or Design Review) 2.	No	40		If the answer is No assess the need and cost benefit of developing a computer model or engineering design assessment of the Sewer Network and complete Query 2.12. If the answer is Yes proceed to Queries 2.1.1 to 2.1.4 inclusive
2.1.1	If Answer to Query 2.1 is Yes, what % of the Network is covered by the hydraulic assessment 7	N/A	0		The % coverage of the Network by the Hydraulic Assessment can be estimated by the area assessed against the area served by the Network, ENTER "N/A" IF COMPUTER MODEL OF DESIGN DOES NOT EXIST. DO NOT LEAVE BLANK OR ENTER "0".
2.1.2	How many years has it been since the completion of the hydraulic assessment?	N/A	0		Select N/A response if no design assessment or design exists.
2.1.3	Are the outcomes of the Hydraulic Assessment being implemented ?	N/A	0		Select N/A response if no design assessment or design exists.
2.1.4	How many years has it been since the outcomes of the hydraulic assessment have been implemented ?	N/A	0		Select N/A response if no hydraulic performance assessment or design exists. For onging works select "less than 5".
2.2	Has a Dynamic Computer Model been used to Assess the Hydraulic Performance of the Sewer Network ?	No	10		Computer Model means a Hydroworks/Infoworks Model, Micro-Drainage Model or equivalent.
2.3	Has a Manhole Survey been undertaken in accordance with WRc Documentation "Model Contract Document for Manhole Location Surveys and the Production of Record Maps" ?	No	10		If the answer is No assess the need and cost benefit of undertaking a Manhole Survey and complete Query 2.12. If the answer is Yes proceed to Query 2.2.1
2.3.1	If yes, how many years has it been since the survey was undertaken or updated?	more than 10	0		Select N/A if no Manhole Survey has been undertaken. Enter N/A value for Confidence Grade if Prompt Box is "N/A"
2.4	Has a Flow Survey been undertaken in accordance with WRc Documentation "A Guide to Short Term Flow Surveys of Sewer Systems" and "Contract Documents for Short Term Sewer Flows"?	No	20		If the answer is No assess the need and cost benefit of undertaking a Flow Monitoring Survey and complete Query 2.12. If answer is Yes Proceed to Query 2.5
2.5	What was this Flow Survey Information Used for ?				
2,5,1	To Determine the extent of Problematic Sewer Catchments	N/A	0		Select N/A if no Flow Survey has been undertaken.
2.5.2	To Verify a Computer or Mathematical Model of the Network	N/A	0		Select N/A if no Flow Survey has been undertaken.
2.6	Have Performance Criteria been developed to determine the short, medium or long term capacity of the sewer network?	No	10		If the answer is No assess the Future Needs of the Sewer Network and complete Query 2.12. If the answer is Yes proceed to Query 2.8
2.7	How many flood events resulting from surcharge in the network have occurred in the past 3 years?	1 to 3	5		Flood events in this context means water/sewage backing up from the Network causing flooding of properties or causing disruption of traffic
2.8	Are there deficiencies in performance criteria within the sewer network ?	Yes	20		If the answer is No, Proceed to Query 2.10 and complete Query 2.12.  If the answer is Yes proceed to Query 2.9
2.9	Have the causes of these deficiencies in the Performance Criteria been identified and rectified ?	No	10		If the answer is No, consider further examination of the hydraulic model (if available) and complete Query 2.12.  If the answer is Yes proceed to Query 2.10
2.10	Can the Hydraulic Assessment (defined in Query 2.1 above) be used to determine the benefit of reducing the contributory Impermeable Areas or extent of surface water contributions	No	10		If the answer is No, consider further development of the Hydraulic Assessment (or model if available) and complete Query 2.12.  If the answer is Yes proceed to Query 2.11
2.11	Has an Impermeable Area Survey been carried out for the applomeration or parts of the applomeration ?	No	10		If the answer is No, consider the need and cost benefit of undertaking an Impermeable Survey fo parts of the agglomeration which are under hydraulic pressure and complete Query 2.12.
	Total Risk Assessme				
2.12	Prepare Assessment of Needs & Sewer Upgrade Implementation Plan	In the AER	Attach Asses		Rehabilitation Implementation Plan as separate uments
2.13	In the AER provide Summary	of Proposed Wo	rks or Directio	n to be taken to imp	rove hydraulic efficiency

				Short	
Query	Description	Prompt	Risk Score	Commentary by the Local Authority	Comment or Action to be Taken
3.1	What Environmental or Discharge Quality Data is available with regard to the sewer network ?	largely anecdotal	20		Select N/A if no discharges, secondary discharges or overflows from network; if discharges do exist complet Query 3.12
3.1.1	Do trade affluents discharge to the sewer network?	No	0		If the answer is No, proceed to Query 3.1.2. If the answer is Yes, Proceed to Query 3.2
3.1.2	Are there Storm Water Overflows within the network 7	Yes	20		If the answer is No, proceed to Query 3.1.3. If the answer is Yes, Proceed to Query 3.3
3.1.3	Are there Secondary Discharges within the network (excluding Emergency Overflows at Pump Stations)?	No	0		If the answer is No, proceed to Query 3.1,4.
3.1,4	is there any evidence that exfiltration is occurring from the network ?	No	0		If the answer is No, does all wastewater enter a wastewater treatment plant (insert summary details in the AER)?  If Yes, Proceed to Query 3.6
3.2	if Answer to Guery 3.1.1 is "Yes", what % of trade effluents have a licence to Discharge to the Public Sewer ?	N/A	o		Select N/A if answer to Query 3.1.1 is No. If not all trade effleunts are licenced, Local Authority should consider issuing and controlling such discharges under the appropriate Legislation.
3.2.1	Are all licenced trade Discharges compliant with their relevant licence and associated conditions.	N/A	0		Answer N/A if none of the trade effluents are licenced Answer No if this information is unknown. If the answer is <b>Unknown</b> or <b>No</b> , consider issuing a direction to the relevant Licencee.  If the answer is <b>Yes</b> , no further action is needed.
3.2.2	If Answer to Query 3,2.1 is "No", state what % of Trade Discharges are NOT compliant with their relevant licence and associated conditions (where that non-compliance led to enforcement action)	0 = 10%	5		Select N/A if answer to Query 3.2.1 is Yes. If N/A is selected as answer to Query 3.2.2
3.3	In accordance with the DoEHLG paper "Procedures & Criteria in relation to Storm Water Overflows", what % of storm water overflows in the system have been classified for their significance?	N/A	0		If the answer is No, consider a review of each discharge within the sewer network complete and Query 3.11, If the answer is Yes, proceed to Query 3.6
3.4	Have samples from any Secondary Discharges within the system been analysed ?	N/A	0		Select N/A if no secondary discharges in system. If the answer to Query 3.4 is No, consider examining the quality of each secondary discharge within the sewe network complete Query 3.11.  If the answer is Yes, proceed to Query
3.5	What percentage of discharges from the system are known to cause environmental pollution of the receiving waters ?	None	0		If the answer is greater than 50% then detail, in the AER, the Improvement Programme necessary to reduce this percentage.
3.6	In relation to possible extiltration has a risk analysis of ground water contamination or pollution been undertaken ?	N/A	0		Select N/A if answer to Query 3.1.4 is NO. If the answer is No, consider undertaking ground water ris analysis and complete Query 3.12
3.6.1	If Answer to Query 3.8 is "Yes", have any groundwater aquifers been identified in the area of the Network and/or Discharge Points?	N/A	0		Select N/A if no risk analysis of groundwater contamination has been undertaken.
3,6,2	If Answer to Query 3.6.1 is "Yes", state the classification of groundwater aquifer identified in the area?	N/A	0		Select N/A if no risk analysis of groundwater contamination has been undertaken.
3,6,3	In relation to Query 3.5.1, is the aquifer used as a source for Public, Private or Group Water Supply Schemes?	No	0		Select N/A if no risk analysis of groundwater contamination has been undertaken.
3.7	Has an Impact Assessment of each Storm Water Overflow been undertaken in accordance with the DoEHLG paper "Procedures & Criteria in relation to Storm Water Overflows" including setting performance criteria?	No	40		If the answer is No, consider assessing the risk category of the receiving waters.  If the answer is Yes, proceed to Query 3.8 and provious summary details of the assessment in the AER.
3.8	What percentage of storm water overflows comply with the performance criteria referred to in Query 3.7?	N/A	30		Select N/A if answer to Query 3,7 is No or if there as no SWOs in system. (Risk Score is locked at 0 if n SWOs in system is stated in Agglomeration Details
3.9	Have the causes of these Capacity Deficiencies (storm water overflows & Secondary Discharges) been identified ?	N/A	0		Select N/A if answer to Query 3.7 is NO or if there a no SWOs in system. If the answer to Query 3.9 is No consider further examination of the environmental
	Total Risk Assess	ment Score (RAS	115		
3.10	Prepare Assessment of Needs & Sewer Upgrade Implementation Plan	In the AER Attac	h Assessmen	t of Needs and R	ehabilitation Implementation Plan as separate documer

	Section	on 4.1 Struc	tural Risk A	Assessment	
Query	Description	Prompt	Risk Score	Short Commentary by the Local Authority	Comment or Action to be Taken
4.1	Has a CCTV Survey been undertaken in accordance with WRc Documentation "Model Contract Document for Sewer Condition Inspections" and "Manual of Sewer Condition Classification"?	No	10		If the answer is No assess the need and benefit of undertaking CCTV Survey. If Yes Proceed to Query 4.2
4.1.1	How many years has it been since the completion of the GCTV/Survey?	N/A	0		If no CCTV has been undertaken, select "N/A" response
4.2	What was this CCTV Survey Information Used for?	N/A	10		Select N/A if answer to Query 4.1 is NO.
4.3	Has the CCTV Survey been used to Assess the Structural Condition of the Sewer Network or targeted sections of the Sewer Network?	No	5		If no CCTV has been undertaken, select "No" response. If the answer is No assess the need and benefit of undertaking an assessment of the Structural Condition of the Sewer Network.  If the answer is Yes proceed to Q
4.4	Have Performance Criteria been developed to determine the short, medium or long term structural condition of the sewer network?	No	5		If the answer is No, enter "unknown" in response to Queries 4.4.1 to 4.4.5; consider assessing the Future Needs of the Sewer Network. If the answer is Yes proceed to Queries 4
4.4.1	What % of the Total Sawer Length contains Collapsed or Imminent Collapse of Sawers (Grade 5)	unknown	30		Insert Percentage of Overall Network Length; If a sewer length contains a Grade 5 collapse, include the total length of that sewer in calcuating the %. If information is not available type "Unknown" into Prompt Box
4.4.2	What % of Total Sewer Length contains Sewers Likely to Collapse (Grade 4)	unknown	25		Insert Percentage of Overall Network Length; If a sewer length contains a Grade 4 condition, include the total length of that sewer in calcuating the %. If information is not available type "Unknown" into Prompt Box
4.4.3	What % of Total Sewer Length contains sewers with Further Possible Deterforation (Grade 8)	unknown	10		Insert Percentage of Overall Network Length; If a sewer length contains a Grade 3 deterioration, include the total length of that sewer in calcuating the %, If information is not available type "Unknown" into Prompt Box
4.4.4	What % of Total Sewer Length contains sewers with Minimal Collapse (Grade 2)	unknown	5		Insert Percentage of Overall Network Length; If a sewer length contains a Grade 2 feature, include the total length of that sewer in calcuating the %. If information is not available type "Unknown" into Prompt Box
4.4.5	What % of Total Sewer Length contains sewers of Acceptable Structural Condition (Grade 1)	unknown	5		Insert Percentage of Overall Network Length. If information is not available type "Unknown" into Prompt Box
lf a	Il % lengths are known, Check Total Length = 100%		75		If answers to Queries 4.4.1, 4.4.2 or 4.4.3 are above a set level, the RAS for Query 4 is automitically set at the maximum of 140.
4.5	What % of the deficiencies, as detailed in Items 4.4.1, 4.4.2 and 4.4.3, have been rectified ?	N/A	35		Select N/A if answer to Query 4.4 is No. If the answer is No. Proceed to Query 4.6  If the answer is Yes, what monitoring is in place to ensure continued acceptance of structural condition?  Proceed to Query 4.7
4.6	Have the causes of the Structural Deficiencies (Grades 3, 4 and 5) been identified or is there a Preventative Maintenance Programme in place?	No	10 AS) 150		If the answer is No, consider further examination of the sewer network, the structural loading conditions, gradients and possible H <sub>2</sub> S Formation. If Yes completed Query 4.7

4.7 Prepare Assessment of Needs & Sewer Rehabilitation Implementation Plan

In the AER Attach Assessment of Needs and Rehabilitation Implementation Plan as separate documents

	Se	ection 5.1 O&	M Risk As	sessment	
Query	Description	Prompt	Risk Score	Short Commentary by the Local Authority	Comment or Action to be Taken
5,1	Are complaints of an environmental nature recorded and held in a central database?	Yes	0		Consider setting up Central Database for Complaints
5.2	Is there an emergency response procedure in place?	Yes	0		Consider setting up target response times for dealing with Complaints
5,3	What has been the highest frequency of flooding in the network due to hydraulic inadequacy, over the past 5 years?	Once/yr	4		Refers to flooding from the Network only, not natural flooding from rivers/streams/high tides. Select the highest number of events in any 12 month period.
5.4	What has been the highest frequency of flooding in the network due to operational causes over the past 5 years?	None	0		Refers to flooding from the Network only, not natural flooding from rivers/streams/high tides. Select the highest number of events in any 12 month period.
5.5	What has been the highest frequency of surcharging of critical sewers in the network, over the past 5 years?	Once/yr	2		Select the highest number of events in any 12 month period.
5.6	What has been the highest frequency of reportable incidents in the network, over the past 5 years?	Once/yr	2		Select the highest number of events in any 12 month period.
5.7	What has been the highest frequency of reportable incidents due to discharges, for whatever reason, from Pumping Station Emergency Overflows in the network, over the past 5 years?	None	0		Select the highest number of events at any given Pumping Station in any 12 month period.
5,8	What has been the highest frequency of blockages in sewers in the network over the past 6 years?	0 - 0.01/km/yr	4		Select the highest number of events per km of sewer network in any 12 month period.
5.9	What has been the highest frequency of collapses in sewers in the network over the past 5 years?	None	0		Select the highest number of events in any 12 mont period.
5.10	What has been the highest frequency of bursts in rising mains in the network over the past 5 years?	Once/yr	4		Select the highest number of events in any 12 mont period.
	Total Risk Asses	sment Score (RAS	16		
5.11	Prepare Up Dated Operational and Maintenance Plan				

## Section 6.1 Summary of Risk Assessment Scores

Element	Risk Assessment Score	Risk Category	% Risk Score	Maximum Risk Score
Section 2.1 Hydraulic Risk Assessment	145	High Risk	97%	150
Section 3.1 Environmental Risk Assessment	115	Low Risk	23%	500
Section 4.1 Structural Risk Assessment	150	High Risk	100%	150
Section 5.1 O&M Risk Assessment	16	Low Risk	8%	200
Total RAS for Network	426	High Risk	43%	1000

If the total RAS is greater than 750, or if any of the individual RASs are greater than 75% of the Maximum Available Score, the Risk category for the Network is graded "High Risk"