# Annual Environmental Report 2016

<b>Agglomeration Name:</b>	Rockcorry
Licence Register No.	D0454-01





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#### Section 1. Executive Summary and Introduction to the 2016 AER

#### 1.1 Summary Report on 2016

This Annual Environmental Report has been prepared for **D0454-01**, **Rockcorry**, in County **Monaghan**, in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified assessments are included as an appendix to the AER as follows:

• Sewer Integrity Risk Assessment in Appendix 7.3

The agglomeration is served by a wastewater treatment plant with a Plant Capacity PE of 1000. The treatment process includes the following:-

- Preliminary Treatment (Screening)
- Primary Treatment (Settlement Tanks)
- Secondary Treatment (Percolating filters)
- Nutrient Removal (Chemical dosing for Phosphorus Removal)

The final effluent from the Primary Discharge Point was non-compliant with the Emission Limit Values in 2016.

The following parameters exceeded the emission limit values in 2016:-

- BOD (mg/l)
- Ammonia NH3 (mg/l)

474,000kgs sludge as liquid sludge was removed from the wastewater treatment plant in 2016. Sludge was transferred to Monaghan Wastewater Treatment Plant .There were no major capital or operational changes undertaken in 2016

An Annual Statement of Measures is included in Appendix 7.1



#### **Section 2. Monitoring Reports Summary**

#### 2.1 Summary report on monthly influent monitoring

Table 2.1 Influent Monitoring Summary

2.1.1 Monthly Influent Monitoring	BOD (mg / I)	COD (mg / I)	SS (mg/l)	TP (mg / I)	TN (mg / I)	Hydraulic Loading (m3/d)	Organic Loading (PE/Day)
Number of Samples	6	6	6	6	6		
Annual Max.	287	794	445	9.7	66.5	285.6	408
Annual Mean	200.56	527.63	221.08	4.83	36.32	227.10	253.48

Other inputs in the form of sludge/leachate are added to the WWTP after the influent monitoring point and are therefore not represented by influent monitoring. Other inputs, where relevant, are detailed in Section 3.6.

#### Significance of results

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity as detailed further in Section 3.2

The annual maximum hydraulic loading is less than the peak Treatment Plant Capacity as detailed further in Section 3.2. The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliant with Emission Limit Values

The annual mean organic loading is less than the Treatment Plant Capacity as detailed further in Section 3.2.

The annual maximum organic loading is less than the Treatment Plant Capacity as detailed further in Section 3.2.



## 2.2 Discharges from the agglomeration

Table 2.2 - Effluent Monitoring

2.2.1 Effluent Monitoring	BOD	COD	TSS	Ortho P	Ammonia	рН
Summary	(mg/l)	(mg/l)	(mg/l)	(mg/l)	NH3 (mg/l)	
WWDL ELV (Schedule A)	10.00	100.00	35.00	1.5 , Note:	6 Note:	6 to 9
where applicable				Stricter ELV	Stricter ELV	
				for ortho P	for	
				0.7mg/I from	Ammonia	
				the 31/12/19	1mg/l from	
					the	
					31/12/19	
ELV with Condition 2	20.00	200.00	87.50	1.80	12.00	No allowable
Interpretation included						exceedances
Interim % Reduction						
(Schedule A)						
Number of sample results	6	6	6	6	6	6
Number of sample results	4	1	0	0	3	0
above WWDL ELV						
Number of sample results	1	0	0	0	3	0
above ELV with Condition 2						
Interpretation						
Annual Mean (for						
parameters where a mean						
ELV applies)						
Overall Compliance	Fail	Pass	Pass	Pass	Fail	Pass
(Pass/Fail)						



#### Significance of results

The WWTP was non-compliant with the ELV's set in the wastewater discharge licence. There were 7 samples non-compliant with the ELVs in relation to BOD (mg/l), Ammonia NH3 (mg/l). The non-compliance is due to 17/08/16 bod 14mg/l (2nd breach of elv 1) and ammonia 14mg/l (outright breach of elv, elv with condition 2 interpretation is 12mg/l)

11/10/16 bod 16mg/l and ammonia 14mg/l.

08/12/16 ammonia 14mg/l n, cod 101mg/l and bod 23mg/l. excessive algal growth, and low inflows were the cause of these exceedances. The impact on receiving waters is assessed further in Section 2.3.



#### 2.3.1. Ambient Monitoring Summary

**Table 2.3. Ambient Monitoring Report Summary Table** 

<b>Ambient Monitoring Point from</b>	Irish Grid	EPA Feature	Bathing	Drinking	FWPM	Shellfish	Current WFD Status
WWDL (or as agreed with EPA)	Reference	Coding Tool code	Water	Water			
Upstream Monitoring Point	E264471	RS36D090080					Poor
	N318863						
Downstream Monitoring Point	E264363	RS36D090100	No	No	No	No	Poor
	N318431						

The results for the upstream and downstream monitoring and/or additional monitoring data sets from Irish Water are included in the Appendix 7.2.

#### Significance of results

- The WWTP was non-compliant with the ELV's set in the wastewater discharge licence as detailed in Section 2.2.
- The discharge from the wastewater treatment plant does not have an observable negative impact on the water quality.
- The discharge from the WWTP doesn't have an observable negative impact on the Water Framework Directive status.
- Other potential causes of deterioration in water quality relevant to this area are unknown

#### 2.4 Data collection and reporting requirements under the UWWTD

The electronic submission of data was completed on 11/01/2017

#### 2.5 Pollutant Release and Transfer Register (PRTR) - report for previous year

A PRTR is not required as the PE is < 2000



## **Section 3. Operational Reports Summary**

#### **3.1 Treatment Efficiency Report**

	cBOD (kg/yr)	COD (kg/yr)	SS (kg/yr)	Total P (kg/yr)	Total N (kg/yr)
Influent mass loading (kg/year)	5.551	14,604	6,119	134	1,005
Effluent mass emission (kg/year)	368	1,529	375	21	741
% Efficiency (% reduction of	93%	90%	94%	85%	26%
influent load)					

#### 3.2 Treatment Capacity Report

Table 3.2 - Treatment Capacity Report Summary

Hydraulic Capacity – Design / As Constructed (dry weather flow) (m3/day)	227
Hydraulic Capacity – Design / As Constructed (peak flow) (m3/day)	681
Hydraulic Capacity – Current loading (m3/day)	227
Hydraulic Capacity – Remaining (m3/day)	454
Organic Capacity - Design / As Constructed (PE)	1,000
Organic Capacity - Current loading (PE)	253
Organic Capacity – Remaining (PE)	747
Will the capacity be exceeded in the next three years? (Yes / No)	No
Is an upgrade or expansion of the WWTP proposed? (i.e. if on Minor Programme or CIP) (Yes/No)	No

#### 3.3 Extent of Agglomeration Summary Report

In this section Irish Water is required to report on the amount of urban waste water generated within the agglomeration. It does not include any waste water collected and created in a private system and discharged to water under a Section 4 Licence issued under the Water Pollution Acts 1977 (as amended).



**Table 3.3 - Extent of Agglomeration Summary Report** 

	% of P.E. load generated in the agglomeration	Estimated / Measured
Load generated in the agglomeration that is	100%	
collected in the sewer network		
Load collected in the agglomerations that enters	100%	
treatment plant		
Load collected in the sewer network but discharges	Unknown	
without treatment (includes SWO, EO, and any		
discharges that are not treated)		

**Load generated in the agglomeration that is collected in the sewer network** is the total load generated and collected in the municipal network within the boundary of the agglomeration.

**Load collected in the agglomerations that enters treatment plant** is that portion of the previous figure which enters the waste water treatment plant.

**Load collected but discharged without treatment** is that portion of the first figure which is discharged without treatment.

#### 3.4 Complaints Summary

A summary of complaints of an environmental nature is included below.

**Table 3.4 - Complaints Summary Table** 

	•		
Number of	Nature of Complaint	Number	Number
Complaints		Open	Closed
		Complaints	Complaints
None			



#### 3.5 Reported Incidents Summary

A summary of reported incidents is included below.

Table 3.5.1 - Summary of Incidents

3.5.1 Incident Type (e.g. Non- compliance, Emission, spillage, pollution incident)	Incident Description	Cause	No. of Incidents	Recurring Incident (Yes/No)	Corrective Action	Authorities Contacted. Note 1	Reported to EPA (Yes/No)	Closed (Yes/No)
Non Compliance with ELV	INCI010803 Breaches of ELV for Ammonia and BOD	Algal growth on biotower 1 and inadequate wetting of the media during low flow periods are the suspected causes of the exceedances in 2016	3	Yes	Desludging carried out. Algal growth removed of media, improvement in performance expected as a result.	IFI	Yes	No

Note 1: For shellfish waters notify the Marine Institute (MI) Sea Fisheries Protection Authority (SFPA) Food Safety Authority (FSAI) and An Bord Iascaigh Mhara (BIM). This should also include any other authorities that should be contacted arising from the findings of any Licence Specific Reports also e.g. Drinking Water Abstraction Impact Risk Assessment, Fresh Water Pearl Mussel Impact Assessments etc.

**Table 3.5.2 - Summary of Overall Incidents** 

Number of Incidents in 2016	3
Number of Incidents reported to the EPA via EDEN in 2016	3
Explanation of any discrepancies between the two numbers above	N/A



## 3.6 Sludge / Other inputs to the WWTP

Other inputs to the waste water treatment plant are summarised in Table 3.6 below.

Table 3.6 - Other Inputs

Input Type	m3/year	P.E.	% of load to WWTP	Included in Influent Monitoring? (Y/N)	Is there a leachate/sludge acceptance procedure for the WWTP? (Y/N)	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Domestic /Septic	0	0	0.00%			
Tank Sludge						
Industrial /	0	0	0.00%			
<b>Commercial Sludge</b>						
Landfill Leachate	0	0	0.00%			
(delivered by tanker)						
Landfill Leachate	0	0	0.00%			
(delivered by sewer						
network)						
Other (specify)	0	0	0.00%			



## **Section 4. Infrastructure Assessments and Programme of Improvements**

#### 4.1 Storm water overflow identification and inspection report

The Stormwater Overflow Assessment was not submitted previously. A summary of the significance and operation is included below.

Table 4.1.1 - SWO Identification and Inspection Summary Report

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow (High/Med/ Low)	Compliance with DoEHLG criteria	No. of times activated in 2016 (No. of events)	Total volume discharged in 2016 (m3)	Total volume discharged in 2016 (P.E.)	Estimated / Measured data
SW003 * By way of clarification and correction SW003 (listed in WWDL) is not a separate discharge point. The overflow from the storm tank discharges via SW002 (secondary discharge point). An event monitor is due to be installed on the overflow from the storm tank in 2017.	E264465 N318871	Yes	Low	Unknown	Unknown	Unknown	Unknown	

Table 4.1.2 - SWO Identification and Inspection Summary Report

How much sewage was discharged via SWOs in the agglomeration in the year (m3/yr)?	Unknown
How much sewage was discharged via SWOs in the agglomeration in the year (p.e.)?	Unknown



What % of the total volume of sewage generated in the agglomeration	Unknown
was discharged via SWOs in the agglomeration in 2016?	
Is each SWO identified as non-compliant with DoEHLG Guidance included	Yes
in the Programme of Improvements?	
The SWO assessment includes the requirements of relevant WWDL	N/A
Schedules (Yes/No)	
Have the EPA been advised of any additional SWOs / changes to	N/A
Schedules A/C under Condition 1?	



#### 4.2 Report on progress made and proposals being developed to meet the improvement programme requirements.

The Improvement Programme report included in Appendix 7.1: Annual Statement of Measures addresses the **Specified Improvement Programmes** as detailed in Schedules A3 and C of the WWDL. It should detail other improvements identified through assessments required under the licence.

**Table 4.2.1 - Specified Improvement Programme Summary** 

Specified Improvement Programmes	Licence Schedule	Licence Completion Date	Date Expired	Status of Works	% Construction Work Completed	Licensee Timeframe for Completing the Work	Comments
Schedule C Specified Improvement Programme of the Licence	С	31/12/2019	No	Not Started	0%		Upgrade the wastewater treatment plant to comply with ELV's

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

**Table 4.2.2 - Improvement Programme Summary** 

Improvement	Improvement	Improvement	Progress	Expected	Comments
Identifier /	Description	Source	(%	Completion	
Name			complete)	Date	
SIT	SIT	Sewer Integrity	100%		2015 SIT submitted prior to this AER.
		Tool (Condition 5.2)			2016 SIT to accompany this AER
Chemical	Chemical Dosing	Improved	0%	Unknown	Flow (and load) proportional dosing should be
Dosing		Operational Control			investigated. Priority 2
Flow related	Flow related	Improved	0%	Unknown	Inlet level adjustment would decease storm tank fill
		Operational Control			frequency Priority 2
Operational	Operational	Improved	0%	Unknown	Inlet flow trends to be reviewed so that 3 X DWF is
Shortfall	Shortfall	Operational Control			allowed to go through to treatment. Priority 2
MN Flow and	MN Flow and Load	Improved	0%	Unknown	



Load	Monitoring	Operational Control		Site survey and design work underway
Monitoring	Programme Phase			
Programme	2			
Phase 2				



Table 4.2.3 - Sewer Integrity Risk Assessment Tool Summary

The Improvement Programme should include an assessment of the integrity of the existing wastewater works for the following:	Risk Assessment Rating (High, Medium, Low)	Risk Assessment Score	Reference to relevant section of AER (e.g. Appendix 2 Section 4.	Specified improvements	Comment
Hydraulic Risk Assessment Score	High	145	Appendix 7.3 AER 2016		
Environmental Risk Assessment Score	Low	40	Appendix 7.3 AER 2016		
Structural Risk Assessment Score	High	140	Appendix 7.3 AER 2016		
Operation & Maintenance Risk Assessment Score	Low	34	Appendix 7.3 AER 2016		
Overall Risk Score for the agglomeration	High	359	Appendix 7.3 AER 2016		



## **Section 5. Licence Specific Reports**

Licence Specific Reports Summary Table

Licence Specific Report	Never required by condition 5 in Licence	Required in this AER or outstanding from previous AER	Included in this AER / Remains outstanding	Reference to previous AER containing report or relevant section of this AER
Priority Substances Assessment	Required	No	No	AER 2014
Drinking Water Abstraction	Not Required	No	No	N/A
Point Risk Assessment				
Shellfish Impact Assessment	Not Required	No	No	N/A
Pearl Mussel Report	Not Required	No	No	N/A
Toxicity/Leachate Management	Not Required	No	No	N/A
<b>Toxicity of Final Effluent Report</b>	Not Required	No	No	N/A
Small Stream Risk Score	Not Required	No	No	N/A
Assessment				
Habitats Impact Assessment	Not Required	No	No	N/A

Licence Specific Reports Summary of Findings

Licence Specific Report	Recommendations in Report	Summary of Recommendations in Report
Priority Substances Assessment	Yes	No further screening required
Drinking Water Abstraction Point	No	
Risk Assessment		
Shellfish Impact Assessment	No	
Pearl Mussel Report	No	
Toxicity/Leachate Management	No	
Toxicity of Final Effluent Report	No	
Small Stream Risk Score Assessment		
Habitats Impact Assessment	No	



#### **5.1 Priority Substances Assessment**

The Priority Substances Assessment was submitted previously in AER 2014 and is summarised below:

Priority Substance Assessment Summary Report	Licensee self- assessment checks to determine whether all relevant information is included in the Assessment.
Does the assessment use the Desk Top Study Method or Screening Analysis to	Desk top study and
determine if the discharge contains the parameters in Appendix 1 of the EPA guidance	Screening Analysis
Does the assessment include a review of Trade inputs to the works?	
	Yes
Does the assessment include a review of other inputs to the works?	
	No
Does the report include an assessment of the significance of the results where a listed material is present in the discharge? (e.g. impact on the relevant EQS standard for the receiving water)	Yes
Does the assessment identify that priority substances may be impacting the receiving water?	No
Does the Improvement Programme for the agglomeration include the elimination / reduction of all priority substances identified as having an impact on receiving water quality?	No
Recommendations	No further screening required
Status of any improvement measures required	N/A



## Section 6. Certification and Sign Off

Table 6.1 - Summary of AER Contents

,	
Does the AER include an executive summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works	Yes
(i.e. have the results of assessments been interpreted against WWDL requirements	
and or Environmental Quality Standards)?	
Is there a need to advise the EPA for consideration of a technical amendment /	Yes
review of the licence?	
List reason e.g. additional SWO identified	Clarification on
	SW002(secondary discharge
	point) and SW003 (storm
	water overflow)
Is there a need to request/advise the EPA of any modifications to the existing	No
WWDL? Refer to Condition 1.7 (changes to works/discharges) & Condition 4	
(changes to monitoring location, frequency etc.)	
List reason e.g. failure to complete specified works within dates specified in the	N/A
licence, changes to monitoring requirements	
Have these processes commenced? (i.e. Request for Technical Amendment / Licence	N/A
Review / Change Request)	
Are all outstanding reports and assessments from previous AERs included as an	No
appendix to this AER?	
Ensure the following reports are included	

#### **Declaration by Irish Water**

The AER contains the following:

- Introduction and background to 2016 AER.
- Monitoring Reports Summary.
- Operational Reports Summary.
- Infrastructural Assessment and Programme of Improvements.
- Licence specific reports
- Certification and Sign Off
- Appendices

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

**Elizabeth Arnett** 

**Head of Corporate Affairs and Environmental Regulation** 

July Date:..13/02/2017.....



#### **Section 7. Appendices**

#### **Appendix 7.1 Statement of Measures**

1	Issue	High Inflows into the Rockcorry WWTP during storm conditions/periods of heavy rainfall
	Mitigation Measure	CCTV survey of network and remedial measures identified carried out.
		Conduct SIRAT on the network
	Status	The improvement programme will be reviewed by Irish Water to assess the
		works required to comply with the licence condition on a prioritised basis.
2	Issue	No record of flows / activation of storm water overflow from storm tank
	Mitigation Measure	Install SWO recorder / flow monitoring
	Status	Rockcorry WWTP is part of the second phase flow and sampling programme
		to commence in 2017

#### **Improvement Programme**

#### a) Specified Improvement Programme

As per condition 5.1 of the licence, a programme of infrastructural improvements to maximise the efficiency and effectiveness of the waste water works shall be prepared and submitted:

In the licence, under schedule C, there is a specified improvement listed, for this licence the specified improvement is to upgrade the WWTP to ensure that ELV's are complied with. The completion date for this improvement is the 31/12/2019. New licence ELV's for Ammonia and Ortho phosphate are due to commence on the 31/12/09.

In 2016 the WWTP plant was non-compliant with licence ELV's for Ammonia and BOD incident details are given in Section 3.5 of the AER. Details of the capacity of the WWTP is detailed in section 3.2, there is remaining capacity at the WWTP.

Under condition 5.2 (a) of the licence, the programme of infrastructural improvements shall include an assessment of the waste water treatment plant having regard to the effectiveness of the treatment provided by reference to the following:

(i) The existing level of treatment, capacity of treatment plant and associated equipment: There is adequate capacity at the treatment plant.

#### (ii) The emission limit values specified in Schedule A: Discharges, of this licence:

There were a number of exceedances of the ELV for Ammonia and BOD in 2016. Algal growth on the media was a contributing factor. Further investigation works are being carried out with the aim of introducing measures to prevent algal growth and ensure adequate wetting of the media to optimise treatment.

(iii) The designations of the receiving water body:



The receiving is not a designated Salmonid Water (under the European Communities (Quality of Salmonid Waters) Regulations, 1988). It is not designated as a sensitive water under the Urban Waste Water Treatment Regulations 2001. The river is not designated as an SPA, SAC or NHA.

The Drumlona Stream is a tributary of Drumlona Lough, its overall status is classified as 'Poor' with an overall objective to restore its status by 2021 in the North Western International River Basin Plan. The 'point risk source' and potential for impact from the WWTP discharge on the river is categorised as 'at risk',

#### (iv) Water quality objective for the receiving water body:

The WWTP discharges to waterbody NW\_36\_237 it is in the North Western river basin district with a status of 'Poor' and has an overall objective to restore its status by 2021. Some contamination issues with receiving stream seem to arise upstream and in general water quality is not satisfactory in the lake tributary.

(v) The standards and volumetric limitations applied to any industrial waste water that is licensed to discharge to the waste water works:

There are no industries licensed to discharge to the waste water works.

Under condition 5.2 (b) of the licence, the programme of infrastructural improvements shall include an assessment of the integrity of the waste water works having regard to:

#### (i) Capacity of the waste water works:

There is adequate capacity at the treatment plant (section 3.2 Treatment Capacity Report).

#### (ii) Leaks from the waste water works:

There are no known leaks at the WWTP site.

#### (iii) Misconnections between foul sewers and surface water drainage network:

Monaghan County Councils Environment Section monitors surface water quality and investigate misconnections.

#### (iv) Infiltration by surface water/ground water:

CCTV work is in the programme of improvements for Rockcorry WWTP.

#### b) Programme of Improvements

Under condition 5.2 (c) of the licence, the programme of infrastructural improvements shall include an assessment of all storm water overflows associated with the waste water works to determine the effectiveness of their operation and in particular identify improvements necessary to comply with the requirements of this licence:

There is a secondary discharge point at the wastewater treatment plant which activates when river levels are high. When river levels are high treated effluent is pumped to the river via this secondary discharge point. SW003 the overflow from the storm tank also discharges via SW002. Rockcorry WWTP is included in the 2<sup>nd</sup> phase of the flow and sampling programme due to commence 2017.



#### **Appendix 7.2 Ambient Monitoring Results**

Rockcorry Upstream								
Sample	Sample	Dissolved Oxygen		BOD	Ortho Phosphorus	Ammonia	рН	
Reference	Date	mg/l	TempoC	mg/l	mg/l	mg/l	units	
93271/005	10-Feb- 2016	10.04	8.5	2.3	0.039	0.009	7.6	
94191/005	8-Mar-2016	10.76	8.8	2.7	0.029	0.036	8	
97741/005	14-June- 2016	7.92	17.6	2.1	0.075	0.094	7.7	
100163/005	17-Aug- 2016	8.24	15.9	1.6	0.187	0.16	8	
102391/005	11-Oct- 2016	10.09	10.2	1.6	0.105	0.032	7.9	
	Average	9.41	12.2	2.06	0.087	0.066	7.84	

#### **Rockcorry Downstream** Dissolved Ortho Sample Phosphorus Sample Oxygen **BOD** Ammonia рН Reference Date mg/l TempoC mg/l mg/l mg/l units 10-Feb-93271/006 2016 10.33 9.1 0.036 0.021 7.6 < 1 94191/006 8-Mar-2016 10.88 9.5 2.9 0.029 0.04 8 14-June-97741/006 0.086 2016 8.14 17.7 2.3 0.11 7.7 17-Aug-100163/006 8.42 16.4 0.161 0.046 2016 1.6 8 11-Oct-102391/006 2016 10.16 10.3 1.6 0.109 0.079 8 12.600 Average 9.586 2.100 0.084 0.059 7.860

Appendix 7.3 Sewer Integrity Risk Assessment 2016

Name   Rockcorry		Section 4.4 Applemention Details						
		Section 1.1 Agglomeration Details Name	Rockcorry					
Basel Comment State   Section 1   Sectio								
Current Date   Page		agglomeration (only divide agglomeration where p.e. >5,000p.e.	Rockcorry					
Waste Wafer Works - Westerwater Treatment Plant Details								
Masks Water Works - Westerward Tearment Plant Details   Ves   Ve		Current Date		Voor		Voor	Voor	
1.1   1.5		Waste Water Works - Wastewater Treatment Plant Details	Unit					
Average Daily influent Floor or Average Total Floor in system (if no measured date exists, insert estimated figure)   Index provided the actis, insert estimated figure)   Index provided the actis, insert estimated figure)   Index provided the actis, increased date actis, insert estimated figure)   Index provided the actis, insert estimated figure)   Index provided the actis, increased date a	1.1	Is there an existing WWTP in operation?		Yes	Yes	Yes	Yes	
1.1   Average Display								
1-1   Total BOD Load	1.2		l/day, measured	227000	227101			
1.5   Setting designity   Normore   Canada   P. e.   670   759   0   0   0   1   1   1   1   1   1   1	1.3		mg/l, measured	177.12	200.55			
Estimated Concentral Coording Non-Domestic Load	1.4	Total BOD Load	kg/day	40.20624	45.54510555	0	0	
1.7   2	1.5	Average Population Equivalent (@0.06kg/person/day)	p.e.	670	759	0	0	
1.9	1.6	Estimated (existing) Non-Domestic Load	p.e.	0	0			
1.10   Sistmand Number of Connected Proporties within the agglomeration when compared with CSO Data or An Post Geodification   Section 1.3 Virtualic Betails	1.7	Estimated Domestic Load	p.e.	670	759	0	0	
Number of properties within the apglomeration when compared with   SOD Data or An Post Geodirectory	1.8	Occupancy Rate for the Agglomeration	pop/house	2.7	2.7			
Section 1.4 Procedure (Postalis   Section 1.5 Hydraulic Capacity	1.9	Estimated Number of Connected Properties	houses	248	281	0	0	
1.11	1.10		houses	98	98			
1.12   Sestem (if no measured data exists insert estimated figure)   Vis. measured   1.01   0.493236111		Section 1.3 Hydraulic Details						
1.12	1.11		l/e measured	1.01	0.430226444			
1.13	1.12	3 /				0.00	0.00	
1.14		Annual Average Peak Flow to WWTP or discharging from whole						
1.15   Highest Peak Flow Recorded (Insert UNKNOWN if no records exist)   1/8   Unknown   4.32	1.14					0.00	0.00	
1.16 Does this Peak Flow (multiple of DWF) cause hydraulic capacity problems within the network?  1.17 Total length of sewers - 450mm Diameter  1.24 Total length of sewers - 225mm but \$ 300mm in Diameter  1.25 Other  1.26 Des this Peak Flow (multiple of DWF) cause hydraulic capacity problems within the network?  1.18 No No Yes Yes  1.19 No No No Yes Yes  1.19 No No No Yes Yes  1.18 Comparison - Mean Annual Rainfall for the agglomeration mm 1006.9 1006.9  1.18.1 Define the Weather Station Used  1.19 What Storage is available at the Wastewater Treatment plant, what is the volume of the storm tank?  1.19 What is the volume of the storm tank of the storm tank?  1.20 veriflows to the tank?  1.21 Total monthly average volume of Storm Water Stored or Returned for Treatment within the Waste Water Treatment Plant may be remorted to the work of the same of the storm tank?  1.22 If the answer to 1.20 above is No, What is the estimated frequency of Overflows from the Storm Tank? (N/A if no overflow)  1.23 What database is used to maintain records of the sewer network  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24 Total length of sewers 450mm Diameter  1.24 Total length of sewers > 450mm Diameter  1.24 Total length of sewers > 225mm but \$ 300mm in Diameter  1.24 Total length of sewers > 225mm but \$ 300mm in Diameter  1.25 What portion of the sewer network consists of Concrete Pipes  1.25.1 What portion of the sewer network consists of Concrete Pipes  1.25.2 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer network consists of Concrete Pipes  1.25.5 What portion of the sewer	1.15	,				0.00	0.00	
1.17 Total Rainfall for Previous Year  1.18 Comparison - Mean Annual Rainfall for the agglomeration  1.18.1 Define the Weather Station Used  1.19 If Storm Water Storage is available at the Wastewater Treatment plant, what is the volume of the storm tank?  1.20 veriflows to the tank?  1.21 Total monthly average volume of Storm Water Stored or Returned for Treatment thin the Waste Water Treatment Plant within the Waste Water Treatment Plant overflows to the tank?  1.22 Overflows from the Storm Tank? (Walf in or overflow)  1.23 Waste Water Works - Sewer Network Details  1.24 Section 1.4 Waste Water Works - Gravity Sewer Details  1.25 What database is used to maintain records of the sewer network  1.26 Total length of sewers \ Submitted or measured)  1.23 If other or combination of the above please describe  1.24 Total length of severs \ Submitted or measured)  1.25 Total length of severs \ Submitted Somm Diameter  1.24 Total length of severs \ Submitted Somm Diameter  1.25 Other  1.26 Pipeline Material  1.27 What portion of the sewer network consists of Concrete Pipes  1.28 What portion of the sewer network consists of Clay materials  1.29 Waster Water Works - Submitted on the Storm Total Pipels  1.24 Total length of severs \ Submitted Somm in Diameter  1.25 What portion of the sewer retwork consists of Clay materials  1.26 What portion of the sewer retwork consists of Clay materials  1.27 What portion of the sewer retwork consists of Clay materials  1.28 What portion of the sewer retwork consists of Clay materials  1.29 What portion of the sewer retwork consists of Clay materials  1.25 What portion of the sewer retwork consists of Clay materials  1.26 What portion of the sewer retwork consists of Clay materials  1.26 What portion of the sewer retwork consists of Clay materials  1.27 What portion of the sewer retwork consists of Clay materials  1.28 What portion of the sewer retwork consists of Clay materials  1.29 What portion of the sewer retwork consists of Clay materials  1.25 What portion of the sewer retwork		Does this Peak Flow (multiple of DWF) cause hydraulic capacity				Yes	Yes	
1.18 Comparison - Mean Annual Rainfall for the agglomeration mm 1006.9 1006.9 1  1.18.1 Define the Weather Station Used Ballyhaise B	1 17	'	mm	1260	801			
1.18.1 Define the Weather Station Used  1.19 If Storm Water Storage is available at the Wastewater Treatment plant, what is the volume of the storm tank?  1.20 Is the capacity of the storm tank sufficient to capture and retain all overflows to the tank?  1.21 Total monthly average volume of Storm Water Stored or Returned for Treatment within the Waste Water Treatment Plant  1.22 If the answer to 1.20 above is No, What is the estimated frequency of Overflows from the Storm Tank? (N/A if no overflow)  1.23 Waste Water Works - Sewer Network Details  1.24 Section 1.4 Waste Water Works - Gravity Sewer Details  1.25 What database is used to maintain records of the sewer network  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 225mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.5 Other  1.25 What portion of the sewer network consists of Concrete Pipes  1.26 Wast portion of the sewer network consists of Concrete Pipes  1.27 What portion of the sewer network consists of Other Materials  1.28 West material  1.29 Wast portion of the sewer network consists of Other Materials  1.29 What portion of the sewer network consists of Other Materials  1.29 What portion of the sewer network consists of Other Materials  1.25 What portion of the sewer network consists of Other Materials  1.25 What portion of the sewer network consists of Other Materials  1.26 What portion of the sewer network consists of Other Materials  1.26 What portion of the sewer network consists of Other Materials  1.26 What portion of the sewer network consists of Other Materials  1.27 What portion of the sewer network consists of Other Materials  1.28 What portion of the sewer network consists of Other Materials  1.29 What portion of the sewer network consists of Other Materials  1.29 What portion of the sewer net								
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that is the volume of the storm tank?  1.20 Is the capacity of the storm tank sufficient to capture and retain all overflows to the tank?  1.21 Total monthly average volume of Storm Water Stored or Returned for Treatment within the Waste Water Treatment Plant  1.22 If the answer to 1.20 above is No, What is the estimated frequency of Overflows from the Storm Tank? (N/A if no overflow)  1.23 Waste Water Works - Sewer Network Details  1.23 What database is used to maintain records of the sewer network  1.23 What database is used to maintain records of the sewer network  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 300mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers > 225mm in Diameter  1.24.5 Other  1.25 Pipeline Material  1.26 What portion of the sewer network consists of Concrete Pipes  1.26 What portion of the sewer network consists of Concrete Pipes  1.26 What portion of the sewer network consists of Concrete Pipes  1.26 What portion of the sewer network consists of Concrete Pipes  1.26 What portion of the sewer network consists of Concrete Pipes  1.27.5 What portion of the sewer network consists of Colay materials  1.28 What portion of the sewer network consists of Colay materials  1.29 What portion of the sewer network consists of Colay materials  1.25 What portion of the sewer network consists of Colay materials  1.26 What portion of the sewer network consists of Colay materials  1.26 What portion of the sewer network consists of Colay materials  1.26 What portion of the sewer network consists of Colay materials  1.27 What portion of the sewer network consists of Colay materials  1.28 What portion of the sewer network consists of Colay materials  1.29 What portion of the sewer network consists of Colay materials  1.29 What portion of the sewer network consists of Colay materials  1.29 What port	1.10.1			Ballyhaise	Ballyhaise			
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Treatment within the Waste Water Treatment Plant  1.22 If the answer to 1.20 above is No, What is the estimated frequency of 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  1.23 What database is used to maintain records of the sewer network  Describe  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 225mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.25.5 What portion of the sewer network consists of Clay materials  What portion of the sewer network consists of Clay materials  Waste Water Works - Sewer Network Details  Unit  2015  2016  2017  2018  Hard Copy Drawings only Drawi	1.20			Yes	Yes	No	No	
1.22   Overflows from the Storm Tank? (N/A if no overflow)	1.21		m <sup>3</sup> per month	Unknown	Unknown			
Section 1.4 Waste Water Works - Gravity Sewer Details  1.23 What database is used to maintain records of the sewer network  1.23.1 If other or combination of the above please describe  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 300mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.5 Other  1.25.1 What portion of the sewer network consists of Plastic Pipes  1.25.2 What portion of the sewer network consists of Brick Type Sewers  1.25.4 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 Estimated  1.26.7 Estimated  1.27.7 Estimated  1.28.8 What portion of the sewer network consists of Brick Type Sewers  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Brick Type Sewers  1.25.2 What portion of the sewer network consists of Other Materials  1.25.3 What portion of the sewer network consists of Other Materials  1.25.4 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network	1.22			N/A	N/A		< 1 per month	
Section 1.4 Waste Water Works - Gravity Sewer Details  1.23 What database is used to maintain records of the sewer network  1.23.1 If other or combination of the above please describe  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 300mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.5 Other  1.25.1 What portion of the sewer network consists of Plastic Pipes  1.25.2 What portion of the sewer network consists of Brick Type Sewers  1.25.4 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 Estimated  1.26.7 Estimated  1.27.7 Estimated  1.28.8 What portion of the sewer network consists of Brick Type Sewers  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Brick Type Sewers  1.25.2 What portion of the sewer network consists of Other Materials  1.25.3 What portion of the sewer network consists of Other Materials  1.25.4 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network		Wasta Water Works - Sower Network Details	Unit	2015	2016	2017	2019	
1.23 What database is used to maintain records of the sewer network  1.23.1 If other or combination of the above please describe  1.24 Total length of sewers (use drop down menus to define whether these figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 300mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers ≤ 225mm in Diameter  1.24.5 Other  1.25.1 What portion of the sewer network consists of Concrete Pipes  1.25.2 What portion of the sewer network consists of Plastic Pipes  1.25.3 What portion of the sewer network consists of Clay materials  1.25.4 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Clay materials  1.25.7 What portion of the sewer network consists of Clay materials  1.25.8 What portion of the sewer network consists of Brick Type Sewers  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.2 What portion of the sewer network consists of Other Materials  1.25.4 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Other Materials  1.25.7 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials			Unit	2015	2016	2017	2018	
1.24 figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 300mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.5 Other  1.24.5 Other  1.25 Pipeline Material  1.25.1 What portion of the sewer network consists of Plastic Pipes  1.25.3 What portion of the sewer network consists of Brick Type Sewers  1.25.4 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Other Materials  1.25.7 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.2 What portion of the sewer network consists of Other Materials  1.25.2 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewe	1.23					SUS 2002	SUS 2003	
figures are estimated or measured)  1.24.1 Total length of sewers > 450mm Diameter  1.24.2 Total length of sewers > 300mm but ≤ 450mm in Diameter  1.24.3 Total length of sewers > 225mm but ≤ 300mm in Diameter  1.24.4 Total length of sewers ≤ 225mm in Diameter  1.24.5 Other  1.25.1 What portion of the sewer network consists of Clay materials  1.25.2 What portion of the sewer network consists of Brick Type Sewers  1.25.4 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Brick Type Sewers  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Other Materials  1.25.7 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.2 What portion of the sewer network consists of Other Materials  1.25.5 What portion of the sewer network consists of Other Materials  1.25.6 What portion of the sewer network consists of Other Materials  1.25.7 What portion of the sewer network consists of Other Materials  1.25.7 What portion of the sewer network consists of Other Materials  1.25.7 What portion of the sewer network consists of Other Materials  1.25.8 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.9 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials  1.25.1 What portion of the sewer network consists of Other Materials	1.23.1	If other or combination of the above please describe	Describe					
1.24.1       Total length of sewers > 450mm Diameter       km Estimated       0.00       0.00         1.24.2       Total length of sewers > 300mm but ≤ 450mm in Diameter       km Estimated       0.00       0.00         1.24.3       Total length of sewers > 225mm but ≤ 300mm in Diameter       km Measured       0.00       0.00         1.24.4       Total length of sewers ≤ 225mm in Diameter       km Estimated       0.00       0.00         1.24.5       Other       km Estimated       2.64       2.64         1.25       Pipeline Material	1.24		km Estimated	0.00	0.00	0.00	0.00	
1.24.3       Total length of sewers > 225mm but ≤ 300mm in Diameter       km Measured       0.00       0.00         1.24.4       Total length of sewers ≤ 225mm in Diameter       km Estimated       0.00       0.00         1.24.5       Other       km Estimated       2.64       2.64         1.25       Pipeline Material       .25.1       What portion of the sewer network consists of Concrete Pipes       % Estimated       0%       0%         1.25.2       What portion of the sewer network consists of Plastic Pipes       % Estimated       0%       0%         1.25.3       What portion of the sewer network consists of Clay materials       % Estimated       0%       0%         1.25.4       What portion of the sewer network consists of Brick Type Sewers       % Estimated       0%       0%         1.25.5       What portion of the sewer network consists of Other Materials       % Estimated       100%       100%	1.24.1	Total length of sewers > 450mm Diameter	km Estimated	0.00	0.00			
1.24.4 Total length of sewers ≤ 225mm in Diameter km Estimated 0.00 0.00  1.24.5 Other km Estimated 2.64 2.64  1.25 Pipeline Material  1.25.1 What portion of the sewer network consists of Concrete Pipes % Estimated 0% 0%  1.25.2 What portion of the sewer network consists of Plastic Pipes % Estimated 0% 0%  1.25.3 What portion of the sewer network consists of Clay materials % Estimated 0% 0%  1.25.4 What portion of the sewer network consists of Brick Type Sewers % Estimated 0% 0%  1.25.5 What portion of the sewer network consists of Other Materials % Estimated 0% 0%  1.25.5 What portion of the sewer network consists of Other Materials % Estimated 100% 100%	1.24.2	Total length of sewers > 300mm but ≤ 450mm in Diameter	km Estimated	0.00	0.00			
1.24.5 Other km Estimated 2.64 2.64  1.25 Pipeline Material 1.25.1 What portion of the sewer network consists of Concrete Pipes % Estimated 0% 0% 1.25.2 What portion of the sewer network consists of Plastic Pipes % Estimated 0% 0% 1.25.3 What portion of the sewer network consists of Clay materials % Estimated 0% 0% 1.25.4 What portion of the sewer network consists of Brick Type Sewers % Estimated 0% 0% 1.25.5 What portion of the sewer network consists of Other Materials % Estimated 0% 0% 1.25.5 What portion of the sewer network consists of Other Materials % Estimated 100% 100%	1.24.3	Total length of sewers > 225mm but ≤ 300mm in Diameter	km Measured	0.00	0.00			
1.25 Pipeline Material 1.25.1 What portion of the sewer network consists of Concrete Pipes % Estimated 0% 0% 1.25.2 What portion of the sewer network consists of Plastic Pipes % Estimated 0% 0% 1.25.3 What portion of the sewer network consists of Clay materials % Estimated 0% 0% 1.25.4 What portion of the sewer network consists of Brick Type Sewers % Estimated 0% 0% 1.25.5 What portion of the sewer network consists of Other Materials % Estimated 0% 0% 1.25.5 What portion of the sewer network consists of Other Materials % Estimated 100% 100%	1.24.4	Total length of sewers ≤ 225mm in Diameter	km Estimated	0.00	0.00			
1.25.1     What portion of the sewer network consists of Concrete Pipes     % Estimated     0%     0%       1.25.2     What portion of the sewer network consists of Plastic Pipes     % Estimated     0%     0%       1.25.3     What portion of the sewer network consists of Clay materials     % Estimated     0%     0%       1.25.4     What portion of the sewer network consists of Brick Type Sewers     % Estimated     0%     0%       1.25.5     What portion of the sewer network consists of Other Materials     % Estimated     100%     100%			km Estimated	2.64	2.64			
1.25.2     What portion of the sewer network consists of Plastic Pipes     % Estimated     0%     0%       1.25.3     What portion of the sewer network consists of Clay materials     % Estimated     0%     0%       1.25.4     What portion of the sewer network consists of Brick Type Sewers     % Estimated     0%     0%       1.25.5     What portion of the sewer network consists of Other Materials     % Estimated     100%     100%			% Fetimated	0%	N%			
1.25.3     What portion of the sewer network consists of Clay materials     % Estimated     0%     0%       1.25.4     What portion of the sewer network consists of Brick Type Sewers     % Estimated     0%     0%       1.25.5     What portion of the sewer network consists of Other Materials     % Estimated     100%     100%							<del> </del>	
1.25.4 What portion of the sewer network consists of Brick Type Sewers % Estimated 0% 0% 1.25.5 What portion of the sewer network consists of Other Materials % Estimated 100% 100%							1	
1.25.5 What portion of the sewer network consists of Other Materials % Estimated 100% 100%								
1.26 Total number of Storm Water Overflows Nr 0 0						_		
	1.26	Total number of Storm Water Overflows	Nr	0	0			

1.27	What Screening or other mechanical devices are employed at the					
1.21	storm water overflows				1	
1.28	Water Quality at the receiving waters					
	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 there is more than one receiving water within the agglomeration)					
	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)					
			<u> </u>	<u> </u>		
					<u></u>	
1.28.3	With reference to the SWO's detailed above define if the receiving waters are sensitive in accordance with the Urban Wastewater					
1.20.3	Treatment Regulations as amended.					
					_	
	With reference to the SWCI- detailed the second of		-			
1.28.4	With reference to the SWO's detailed above define are the receiving waters Protected Areas (designated or awaiting designation)					
1.28.5	With reference to the SWO's detailed above define do the receiving waters have any other designations.					
	material flavo any other designations.			<del> </del>	<del>                                     </del>	
4.00	Section 1.5 Waste Water Works - Pumping Stations					
1.29	Number of Pumping Stations (operated by the Local Authority)	Nr	1	1	1	1
1.30	Lotal Length of Rising Mains (operated by the Local Authority)	km	0.1	0.1	1	ļ .
1.30 1.31	Total Length of Rising Mains (operated by the Local Authority) Rising Main Material	km	0.1	0.1		
1.31	Rising Main Material What portion of the rising mains consists of ductile iron pipes	% Measured	0.1 Unknown	Unknown		
1.31 1.31.1 1.31.2	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes	% Measured % Measured	Unknown Unknown	Unknown Unknown		
1.31	Rising Main Material What portion of the rising mains consists of ductile iron pipes	% Measured	Unknown	Unknown		
1.31 1.31.1 1.31.2 1.31.3	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials	% Measured % Measured	Unknown Unknown Unknown	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point	% Measured % Measured	Unknown Unknown	Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point	% Measured % Measured	Unknown Unknown Unknown	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station 1, Crann Mor PS at E264342, N318896 What percentage of the pumping stations have recorded flow data (i.e.	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this	% Measured % Measured	Unknown Unknown Unknown	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown 100%		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown 100%		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and	% Measured % Measured % Estimated  % Entimated	Unknown Unknown Unknown  100%  0.00%	Unknown Unknown Unknown  100%  0.00%		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896	% Measured % Measured % Estimated	Unknown Unknown Unknown 100%	Unknown Unknown Unknown 100%		
1.31 1.31.1 1.31.2 1.31.3 1.32	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and	% Measured % Measured % Estimated  % Entimated	Unknown Unknown Unknown  100%  0.00%	Unknown Unknown Unknown  100%  0.00%		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations	% Measured % Measured % Estimated  % Estimated	Unknown Unknown Unknown  100%  0.00%  Unknown	Unknown Unknown Unknown  100%  0.00%  Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33	Rising Main Material What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the	% Measured % Measured % Estimated  % Estimated	Unknown Unknown Unknown  100%  0.00%  Unknown	Unknown Unknown Unknown  100%  0.00%  Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Measured % Estimated  % In the state of the	Unknown Unknown Unknown  100%  0.00%  Unknown  0	Unknown Unknown 100%  0.00%  Unknown 0		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	Rising Main Material What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the	% Measured % Measured % Estimated  % Estimated	Unknown Unknown Unknown  100%  0.00%  Unknown	Unknown Unknown Unknown  100%  0.00%  Unknown		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Measured % Estimated  % In the state of the	Unknown Unknown Unknown  100%  0.00%  Unknown  0	Unknown Unknown 100%  0.00%  Unknown 0		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Measured % Estimated  % In the state of the	Unknown Unknown Unknown  100%  0.00%  Unknown  0	Unknown Unknown 100%  0.00%  Unknown 0		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?	% Measured % Measured % Estimated  % In the state of the	Unknown Unknown Unknown  100%  0.00%  Unknown  0	Unknown Unknown 100%  0.00%  Unknown 0		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34 1.34	Rising Main Material  What portion of the rising mains consists of ductile iron pipes  What portion of the rising mains consists of plastic pipes  What portion of the rising mains consists of other materials  Discharge Capacity of the Pump Set (s) at normal duty point  At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?  At Pump Station 1, Crann Mor PS at E264342, N318896  Water Quality at the receiving waters at each pumping station location  Where the receiving water is a river - indicate the EPA Biological	% Measured % Measured % Estimated  % In the state of the	Unknown Unknown Unknown  100%  0.00%  Unknown  0	Unknown Unknown 100%  0.00%  Unknown 0		
1.31 1.31.1 1.31.2 1.31.3 1.32 1.33 1.34	Rising Main Material What portion of the rising mains consists of ductile iron pipes What portion of the rising mains consists of plastic pipes What portion of the rising mains consists of other materials Discharge Capacity of the Pump Set (s) at normal duty point At Pump Station 1, Crann Mor PS at E264342, N318896  What percentage of the pumping stations have recorded flow data (i.e. if all pumping stations have flow meters on the rising mains then this would read 100%)  Available Storage Capacity at Pump Stations (include pump sump and any storm water/emergency overflow tanks)  At Pump Station 1, Crann Mor PS at E264342, N318896  Total Number of "Licenced Secondary Discharge Points and Stormwater Overflows" at pumping stations  Total Number of "Emergency Overflow Points" at pumping stations  What Screening or other mechanical devices are employed at the secondary discharge points or emergency overflows?  At Pump Station 1, Crann Mor PS at E264342, N318896  Water Quality at the receiving waters at each pumping station location	% Measured % Measured % Estimated  % In the state of the	Unknown Unknown Unknown  100%  0.00%  Unknown  0	Unknown Unknown 100%  0.00%  Unknown 0		

	At Pump Station 1, Crann Mor PS at E264342, N318896	Describe	N/A	N/A		
	At 1 dilip dialion 1, orani Moi 1 o at 2204042, NO 10000	Describe	14/73	14/73		
	Where the receiving water is a coastal water indicate the Status of the Receiving Water for each secondary discharge point or emergency					
1.38.2	overflow at each pumping station (Particularly if there is more than one					
	receiving water within the agglomeration)					
	At Pump Station 1, Crann Mor PS at E264342, N318896	Describe	N/A	N/A		
	With reference to the pumping stations, for each secondary discharge					
1.38.3	point or emergency overflow detailed above, define if the receiving					
	waters are sensitive in accordance with the Urban Wastewater Treatment Regulations as amended.					
	At Pump Station 1, Crann Mor PS at E264342, N318896		Not Listed	Not Listed		
	At 1 drip Station 1, Statin Moi 1 S at E204542, NO 10050		NOT EISTER	NOT EISTON		
	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).					
	and the state of t					
	At Pump Station 1, Crann Mor PS at E264342, N318896	Designation	N/A	N/A		
4.05 =	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, Crann Mor PS at E264342, N318896	Decianation	N/A	N/A		
	The station is ciallitivior to at E204342, N310090	Designation	IN/A	IN/A		
	Estimated Number of Private Devices Charles					
1.39	Estimated Number of Private Pumping Stations within the agglomeration (not operated by the Local Authority)	Nr	0	0		
	Section 1.6 Reporting					
	Section 1.6.1 Reported Number of Sewer Related Complaints ('Complaint' as defined in the Discharge Licence)					
1.40	Number of Reported Complaints	Nr	0	0		
1.41	Number of Reported Complaints which have been rectified	Nr	0	0		
	Section 1.6.2 Reported/Recorded/Estimated Number of Secondary					
	Discharges					
1.42	Number of Reported Secondary Discharges	Nr Nr	0	0		
1.43	Number of Recorded Secondary Discharges  Estimated Total Number of Secondary Discharges	Nr Nr	0	0	0	0
	Section 1.6.3 Reported/Recorded/Estimated Number of Emergency Overflow Discharges from Pumping Stations					
1.45	Number of Reported Emergency Overflow Discharges	Nr	0	0		
1.46	Number of Recorded Emergency Overflow Discharges	Nr	0	0		
1.47	Estimated Total Number of Emergency Overflow Discharges	Nr	0	0	0	0
	Section 1.7 Operational Staff					
	In the four boxes below, describe the extent of operation staff employed by the Local Authority to maintain and operate the sewer					
1.48	network and pumping stations					
	(The individual personnel <u>shall not be named</u> , only grade and level of training needs to be provided)					
	, ,					
1.48.1	A caretaker is responsible for the operational and maintenance of the WWTP and network. The caretaker is also responsible for four other					
	agglomerations.					
1.48.2	The caretaker is answerable to a line manager technican.					
1.70.2	salstanor is anomorable to a line manager technican.					
1.48.3	The technican reports to the senior executive engineer.					
1.48.4						
	Waste Water Works - Investment Details	Unit	2015	2016	2017	2018
	Section 1.8 Capital Investment works carried out since most	- Canc				
	recent report (including works not included on WSIP Programme or not WSIP funded)					
1.49	Sewers Upgraded or Replaced	m	0	0		
_						

1.50	Sewers Rehabilitated	m	0	0		
1.51	Manholes Rehabilitated	Nr	0	0		
1.52	Local Repairs	Nr	0	0		
1.53	Total Length of sewers Upgraded, Replaced or Rehabilitated	m	0	0	0	0
1.54	Pumping Stations Operated by Local Authority Upgraded or Repaired	Nr	0	0		
1.55	WWTW operated by Local Authority Upgraded or Replaced	Nr	0	0		
1.56	In the following two cells describe the actual Capital Investment undertaken in the reporting period.					
1.56.1	No work has been undertaken					
1.56.2						
	Section 1.9 Licence Specified Improvements Works					
1.57	2015 AER, Appendix 7.1					
	Section 1.10 Other Updates Since Last Report					
1.58						

	Section 2.1 Hydraulic Risk Assessment							
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)	No	40	ds to be assessed.	If the answer is <b>No</b> 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 <b>Yes</b> 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 ?	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 or DESIGN DOES NOT EXIST. DO NOT LEAVE BLANK OR ENTER "0".			
2.1.2	How many years has it been since the <b>completion</b> 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 <b>outcomes</b> 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 <b>No</b> assess the need and cost benefit of undertaking a Manhole Survey and complete Query 2.12. If the answer is <b>Yes</b> proceed to Query 2.2.1			
2.3.1	If yes, how many years has it been since the survey was undertaken or updated?	N/A	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 <b>No</b> assess the need and cost benefit of undertaking a Flow Monitoring Survey and complete Query 2.12.  If answer is <b>Yes</b> 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	No	0		Select N/A if no Flow Survey has been undertaken.			
2.5.2	To Verify a Computer or Mathematical Model of the Network	No	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 <b>No</b> assess the Future Needs of the Sewer Network and complete Query 2.12.  If the answer is <b>Yes</b> 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 <b>No</b> , Proceed to Query 2.10 and complete Query 2.12.  If the answer is <b>Yes</b> 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 <b>No</b> , consider further examination of the hydraulic model (if available) and complete Query 2.12.  If the answer is <b>Yes</b> 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 agglomeration or parts of the agglomeration ?	No	10		If the answer is <b>No</b> , consider the need and cost benefit of undertaking an Impermeable Survey for parts of the agglomeration which are under hydraulic pressure and complete Query 2.12.			
	Total Risk Assessme		145	amount of Nice 1	Dehebilitation Implementation Div			
2.12	Prepare Assessment of Needs & Sewer Upgrade Implementation Plan	In the AER	Attach Assess		Rehabilitation Implementation Plan as separate ments			
2.13								

Section 3.1 Environmental Risk Assessment							
Query	Description	Prompt	Risk Score	Short 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?	up-to-date electronic or paper database exists	0		Select N/A if no discharges, secondary discharges or overflows from network; if discharges do exist complete Query 3.12		
3.1.1	Do trade effluents discharge to the sewer network?	No	0		If the answer is <b>No</b> , proceed to Query 3.1.2. If the answer is <b>Yes</b> , Proceed to Query 3.2		
3.1.2	Are there Storm Water Overflows within the network?	No	0		If the answer is <b>No</b> , proceed to Query 3.1.3. If the answer is <b>Yes</b> , 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 <b>No</b> , proceed to Query 3.1.4.		
3.1.4	Is there any evidence that exfiltration is occurring from the network ?	Unknown	20		If the answer is <b>No</b> , does all wastewater enter a wastewater treatment plant (insert summary details in the AER)?  If <b>Yes</b> , Proceed to Query 3.6		
3.2	If Answer to Query 3.1.1 is "Yes", what % of trade effluents have a licence to Discharge to the Public Sewer?	N/A	0		Select N/A if answer to Query 3.1.1 is <b>No.</b> 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)	N/A	0		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 <b>No</b> , consider a review of each discharge within the sewer network complete and Query 3.11.  If the answer is <b>Yes</b> , 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 <b>No</b> , consider examining the quality of each secondary discharge within the sewer network complete Query 3.11.  If the answer is <b>Yes</b> , 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 exfiltration has a risk analysis of ground water contamination or pollution been undertaken?	No	20		answer is <b>No</b> , consider undertaking ground water risk analysis and complete Query 3.12		
3.6.1	If Answer to Query 3.6 is "Yes", have any groundwater aquifers been identified in the area of the Network and/or Discharge Points?	N/A	0		Select <b>N/A</b> 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 <b>N/A</b> if no risk analysis of groundwater contamination has been undertaken.		
3.6.3	In relation to Query 3.6.1, is the aquifer used as a source for Public, Private or Group Water Supply Schemes?	N/A	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?	N/A	0		If the answer is <b>No</b> , consider assessing the risk category of the receiving waters.  If the answer is <b>Yes</b> , proceed to Query 3.8 and provide 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	0		Select N/A if answer to Query 3.7 is No or if there are no SWOs in system. (Risk Score is locked at 0 if no 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		no SWOs in system. If the answer to Query 3.9 is <b>No</b> , consider further examination of the environmental		
		Total Risk Assessment Score (RAS)	40				
3.10	3.10 Prepare Assessment of Needs & Sewer Upgrade Implementation Plan  In the AER Attach Assessment of Needs and Rehabilitation Implementation Plan as separate documents						
	Provide Summary Details (in the AER) of records upstream and downstream of licenced discharges with regard to Environmental Performance of the network. These details can be included						

Provide Summary Details (in the AER) of records upstream and downstream of licenced discharges with regard to Environmental Performance of the network. These details can be included as part of the AER submitted for the agglomeration.

	Section 4.1 Structural Risk 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	aken in the future to a	If the answer is <b>No</b> assess the need and benefit of undertaking CCTV Survey.  If <b>Yes</b> Proceed to Query 4.2				
4.1.1	How many years has it been since the <b>completion</b> of the CCTV 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 <b>No</b> assess the need and benefit of undertaking an assessment of the Structural Condition of the Sewer Network.  If the answer is <b>Yes</b> 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 <b>No</b> , 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 <b>Yes</b> proceed to Queries 4				
4.4.1	What % of the Total Sewer Length contains Collapsed or Imminent Collapse of Sewers (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 Deterioration (Grade 3)	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				
If al	I % 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 <b>No</b> . If the answer is <b>No</b> , Proceed to Query 4.6 If the answer is <b>Yes</b> , 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?	N/A	0		If the answer is <b>No</b> , 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				
	Total Risk As	sessment Score (RAS)	140						

	repare Assessment of Needs & Sewer Rehabilitation
4.7	Implementation Plan

	Section 5.1 O&M Risk Assessment								
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?	No	20		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?	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.				
5.5	What has been the highest frequency of surcharging of critical sewers in the network, over the past 5 years?	None	0		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 5 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 month period.				
5.10	What has been the highest frequency of bursts in rising mains in the network over the past 5 years?	None	0		Select the highest number of events in any 12 month period.				
	Total Risk Ass	essment Score (RAS)	34						
5.11	Prepare Up Dated Operational and Maintenance Plan								

#### Section 6.1 Summary of Risk Assessment Scores Risk **Maximum Risk** Element Assessment **Risk Category** % Risk Score Score Score Section 2.1 Hydraulic Risk Assessment High Risk Section 3.1 Environmental Risk Assessment Section 4.1 Structural Risk Assessment Section 5.1 O&M Risk Assessment Low Risk High Risk Low Risk 8% 93% 17% 500 150 High Risk **Total RAS for Network**

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"