TABLE OF CONTENTS

Tab 1	Section A	Non-Technical Summary
Tab 2	Section B	General
Tab 3	Section C	Infrastructure & Operation
Tab 4	Section D	Discharges to the Aquatic Environment
Tab 5	Section E	Monitoring
Tab 6	Section F	Existing Environment & Impact of the Discharge(s)
Tab 7	Section G	Programmes of Improvements
Tab 8	Section H	Declaration Declaration
Tab 9	Section I	Joint Declaration
	(Programmes of Improvements Declaration Joint Declaration Local Research Control of the Discharge(s)

Section A

Non-Technical Summary

SECTION A: NON-TECHNICAL SUMMARY

Advice on completing this section is provided in the accompanying Guidance Note.

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the discharge of waste water associated with the waste water works. This description should also indicate the hours during which the waste water works is supervised or manned and days per week of this supervision.

The following information must be included in the non-technical summary:

A description of:

- the waste water works and the activities carried out therein,
- the sources of emissions from the waste water works,
- the nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environments.
- the proposed technology and other techniques for preventing or, where this
 is not possible, reducing emissions from the waste water works,
- further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused;
- measures planned to monitor emissions into the environment.

Supporting information should form Attachment Nº A.1

A Description of the Waste Water Works and the Activities Carried Out Therein

Monaghan Town Collection system is currently divided into three main systems; the drainage system servicing the Knockaconny area, the main urban area which drains to the Old Cross Pumping Station and the area around the Cathedral and Pound Hill which gravitate directly to the existing wastewater treatment plant. The existing wastewater treatment plant at Tirkeenan was extended and significantly refurbished in 1994.

In general terms the central parts of the town are fully combined with the more recent developments around the town being separately drained. The foul/combined sewerage system includes a main trunk sewer which runs west to east along the Old Ulster Canal route before entering the Old Cross Square Pumping Station from where it is pumped to the wastewater treatment works at Tirkeenan. This sewer is relieved by a number of combined sewer overflows, which discharge to the Shambles River. Topographical considerations dictate that flows from most areas of the catchment are pumped into the main drainage system. Main pumping stations that serve the sewer network are:

- Old Cross Pumping Station
- Scotstown Road Pumping Station
- Old Armagh Road Pumping Station

The Monaghan wastewater treatment plant (WWTP) is located at Annahagh Lane, Tirkeenan and has a nominal design capacity to treat flows from a population equivalent (PE) of 55,000.

The difference between the population of Monaghan (some 6,250 people including environs) and the loads referred to above is accounted for by discharges from industry, commercial premises, shops, schools and other sources, excluding dwellings, which are collectively referred to as non-domestic discharges.

The treatment plant treats all flows that arrive at the works to secondary standards in accordance with the Urban Waste Water Directive 1994 as shown in the following table:

Parameter	Effluent Limit
BOD	25 mg/l
COD	125 mg/l
Suspended Solids	35 mg/l
Phosphate	2 mg/l

Table 1 - Effluent Discharge Limits

The existing WWTW were last upgraded in 1994. This work included provision of new inlet works, primary settling tanks, aeration tanks, final settling tanks, stormwater tank and sludge handling facilities.

In order to cope with flows above 4 DWF storm storage has been provided at the WWTW. The volume of storm storage at the WWTW is approximately 2,270m³. In the event that the storm water holding tank is filled and the storm continues, the storm water tanks are operated as a pre-clarification tank without sludge removal. The overflow from the storm water storage tank has an emergency overflow to the Shambles River.

The flow is split after the wastewater passes through the new inlet works. A maximum of 1,365m3/day is diverted to the existing wastewater treatment stream. The remaining balance is directed to the new treatment system. The existing stream has an Imhoff tank and percolation filters. The new stream has preliminary settling tanks, aeration phase and final settling tanks.

Sludge is wasted separately from each stream to a common sludge thickeners, sludge stabilisation and common dewatering plant.

A summary of the treatment process is presented below:

Inlet works	2 No. vertical drum screens, 2 No. screw compactors and 1 No. standard grit classifier and flow measurement.		
	EXISTING STREAM	NEW STREAM	
Biological Treatment	1 No. Imhoff tank.	 2 No. preliminary settling tanks with half bridge sludge scraper. 2 No. aeration tanks with fine bubble disc aeration 	
Phosphorus Removal	Ferric Sulphate dosing		
Secondary	4 No. 24m diameter	2 No. 29m diameter final settlement	
Treatment	Sludge settled within the settlement tanks is withdrawn by gravity from each central studge hopper to the return sludge pump sump.		
	Surplus Activated Sludge (SAS) is pumped by 2 No. pumps (Duty/Standby) from the pump sump to the sludge blend/holding tank.		
	Return Activated Sludge (RA (Duty/Standby) from the pur influent.	S) is pumped 2 No. pumps mp sump and is mixed with the incoming	
Sludge Treatment	- 2 No. Sludge Thickener, 5m and 10m diameter		
	- 1 No. Sludge Stabilisation t		
	- 1 No. Sludge Belt Presses with 6 No. sludge transfer pumps and		
Effluent Discharge	poly make-up unit with dosing pumps.		
Elliache Discharge	1 No. 800mm gravity outfall pipe to Shambles River.		

Ancillary equipment at the WWTP also includes the following:

- Odour Treatment Unit with 2 No extractor fans.
- SCADA system covering all the plant including sludge treatment process.
- Main Distribution Boards are equipped with a connection to a mobile generator, to be used in case of a power failure.
- Buildings Inlet and sludge building, electricity transformer building, laboratory and control room building with fire alarm and security alarm systems.

The Monaghan WWTP is currently operated by a Monaghan County Council. The plant is manned during the working week 8.00am - 5.30pm (Monday - Friday) by a plant manager and 2 No. operators. During out of hours the SCADA system will send alarms to a mobile phone of the person on standby.

The Sources of Emissions from the Waste Water Works

The pollution load for the Monaghan agglomeration arises from the following areas:

- The local Population
- The local Industries
- Schools
- Commercial premises like shops and pubs

The pollution load from these sources varies with daily, weekly and seasonal producers of effluent. The sewage from all industries is collected via the public sewer and treated in conjunction with domestic waste at the waste water treatment plant.

The nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment. The final effluent is discharged into the Shambles River. At this moment the WWTW discharges approximately @@m³/d to the river.

Environmental Impacts

Planning for the Monaghan WWTP predates the requirements of an Environmental Impact Statement. An Environmental Impact Statement was not carried out for the Expansion and Upgrading of Monaghan Wastewater Treatment Plant.

It is necessary to consider that the effluent quality meets the requirements stated in the Urban Waste Water Directive 1994.

The Proposed Technology and Other Techniques for Preventing or, Where This Is Not Possible, Reducing Emissions from the Waste Water Works

Technologies

TechnologiesIn the WWTW at Monaghan sufficient number of standby pumps, fans, etc. is provided in order to ensure continuation of the wastewater and sludge treatment and to comply with all environmental standards in case of equipment failures or breakdowns. Standby equipment is installed, ready for take over, or available in stock on site.

Standby diesel generators or generator sockets in control panels are provided to enable the plant to operate during mains electric power failure thereby preventing untreated emissions from entering the receiving aqueous environment.

Techniques

A Performance Management System (PMS) being implemented at the Monaghan Wastewater Treatment Plant. This Performance Management System is developed by the Water Services National Training Group (WSNTG). The PMS provides a uniform approach to dealing with all relevant performance management issues, including Independent Compliance Audits, Management of Change, Dispute Resolution, Public Relations, Emergency Procedures and Reporting Procedures.

Monaghan County Council will perform the Operation of the WWTP in accordance with the Performance Management System and maintains the design performance capability of the existing treatment plant.

Further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused

Prevention of pollution

Any alteration upgrading of the existing infrastructure undertaken by Monaghan County Council shall not increase the potential to cause pollution in the environment. In particular any alterations to the wastewater treatment plant will be designed to enable any operator of the facility to prevent pollution of the environment by the following potential contaminants:

- Surface water run-off
- Spillages
- Solid Waste

Toxic Substances

Monaghan County Council shall ensure that any modification or alterations to the plant do not increase the impact by any toxic substances. All chemicals and dangerous substances must be stored safely at all times and all appropriate safety measures must be taken to ensure against leakage and spillage in accordance with the relevant Health and Safety Legislation.

Measures planned to monitor emissions into the environment

The current operators use a paper template for sampling and analysis of the incoming raw sewage, outgoing effluent, sludge and other by products such as screenings. Sampling Procedures are in place and Sampling Schedules are available to monitor the emissions to the environment.

Monaghan is in the process of implementing the PMS as a template, procedures and procedures for sampling and analysis. This system is expected to be operational in January 2008. Sampling procedures will be in accordance with the PMS and applicable Irish and EU Régulations.

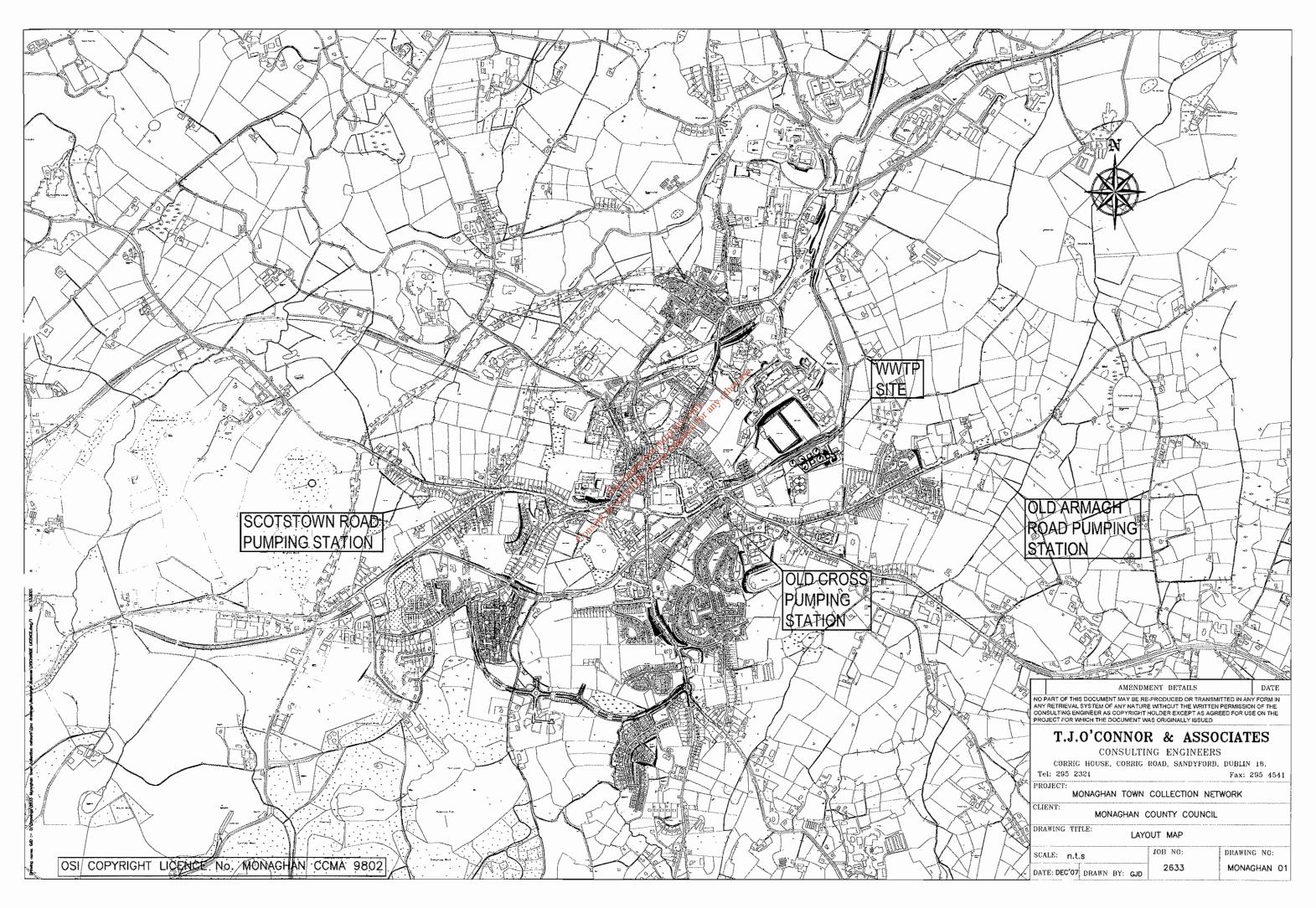
Regular independent laboratory analysis is undertaken to monitor compliance with the requirements. Samples are taken at the same well defined point at the inlet and outlet of the treatment works. The sample is stored in a refrigerator to minimize degradation between collection and analysis.

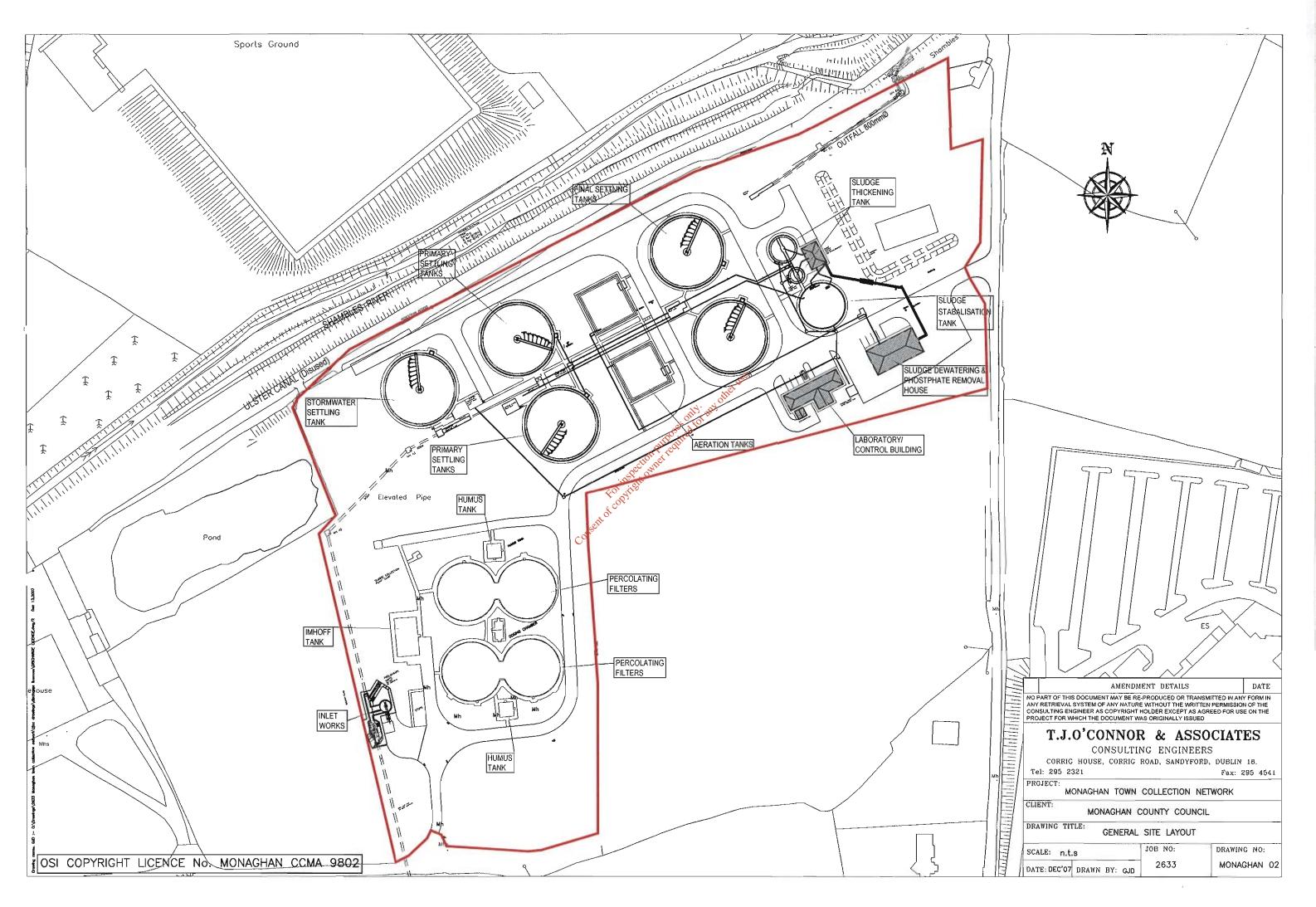
The sampling of the statutory samples is in accordance with the following procedures:

- All samples are representative of the appropriate stream.
- Samples are fixed, stored and handled as per standard methods. Analysis of the samples are undertaken within 24 hours and reported to Monaghan County Council within 48 hours. Exceptions are BOD, metals and pathogen, which are reported within 7 days.

The monitoring and recording of the status of all parameters appropriate to proper control and operation of the plant is carried out.

Supporting Information





Section B

General

SECTION B: GENERAL

Advice on completing this section is provided in the accompanying Guidance Note.

B.1 Applicant's Details*

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Provide a drawing detailing the agglomeration to which the licence application relates. It should have the boundary of the agglomeration to which the licence application relates <u>clearly marked in red ink</u>.

Name**:	Gearoid McCarthy
Address:	Monaghan County Council, Water Services
_	County Offices
	The Glen
_	Monaghan
Tel:	047 30537
Fax:	047 82739
e-mail:	GMcCarthy@monaghancoco.ie

^{*}This should be the name of the water services authority in whose ownership or control the waste water works is vested.

^{**}Where an application is being submitted on behalf of more than one water services authority the details provided in Section B.1 shall be that of the least water services authority.

Name*:	T.J. O'Connor & Associates
Address:	Corrig House
	Corrig Road &
	Sandyford
	Dublin 18
Tel:	01 - 295 2321
Fax:	01 - 295 4541
e-mail:	LClear@tjoc.iol.ie
4	

^{*}This should be the name of person nominated by the water services authority for the purposes of the application.

Co-Applicant's Details

Name*:	not applicable	_
Address:		
Tel:		
Fax: e-mail:		
e-mail:		

^{*}This should be the name of a water services authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge (authorisation) licence application.

Design, Build & Operate Contractor Details

Name*:	not applicable		
Address:			
Tel:			
Fax: e-mail:			
e-mail:			
#14/6	build 0 seconds and a to the land	C. 11 1	1

Attachment B.1 should contain appropriately scaled drawings / maps (≤A3) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	Ne.	

B.2 Location of Associated Waste Water Treatment Plant(s)

Give the location of the waste water treatment plant associated with the waste water works, if such a plant or plants exists the location of the waste water treatment plant associated with the waste water works, if such a plant or plants exists the location of the waste water treatment plant associated with the waste water treatment plant associated with the waste water works, if such a plant or plants exists the location of the waste water treatment plants associated with the waste water works, if such a plant or plants exists the location of the waste water treatment plants associated with the waste water works.

	.07.4.
Name*:	Eugene Farmer
Address:	Monaghan Wastewater reatment Plant
	Tirkeenan
	Monaghan
	eett.
Grid ref	E: 267852 N: 333697
(6E, 6N)	
Level of	Secondary
<u>Treatment</u>	
Primary	047 - 84067
Telephone:	
Fax:	<u>-</u>
e-mail:	efarmer@monaghancoco.ie
*	

^{*}This should be the name of the person responsible for the supervision of the waste water treatment plant.

Attachment B.2 should contain appropriately scaled drawings / maps (≤A3) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as georeferenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.1, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

^{*}Where a design, build & operate contract is in place for the waste water works, or any part thereof, the details of the contractor should be provided.

B.3 Location of Primary Discharge Point

Give the location of the primary discharge point, as defined in the Waste Water Discharge (Authorisation) Regulation, associated with the waste water works.

Type of	Ø800mm Outfall pipe
Discharge	
Unique	SW1
Point Code	
Location	Monaghan WWTW, Tirkeenan, Monaghan
Grid ref	E: 268048 N: 333859
(6E, 6N)	

Attachment B.3 should contain appropriately scaled drawings / maps (≤A3) of the discharge point, including labelled monitoring and sampling points associated with the discharge point. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing the drawings and tabular data requested in sections B.1, B.2, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	in Yes	No
	ally any	

B.4 Location of Secondary Discharge Point(s)

Give the location of **all** secondary discharge point(s) associated with the waste water works. Please refer to Guidance Note for information on Secondary discharge points.

Type of	Ø800mm Outfall pipe
Discharge	
Unique	SW2
Point Code	
Location	Monaghan WWTW, Tirkeenan, Monaghan
Grid ref	E: 267845 N: 333776
(6E, 6N)	

Type of	Ø@@mm Emergency Overflow
Discharge	
Unique	SW3
Point Code	
Location	Old Cross Square PS, Monaghan
Grid ref	E: 267405 N: 333531
(6E, 6N)	

Attachment B.4 should contain appropriately scaled drawings / maps (≤A3) of the discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

B.5 Location of Storm Water Overflow Point(s)

Give the location of **all** storm water overflow point(s) associated with the waste water works.

Type of	Combined Se	ewer Overflow		
Discharge				
Unique	SW4			
Point Code				
Location	Old Cross Sq	uare		
Grid ref	E: 267536	N: 333637	Jee.	
(6E, 6N)			anet II.	

Type of	Combined Sewer Overflow
Discharge	oses d'ac
Unique	SW5 guild guill
Point Code	ison of the
Location	Dawson Street
Grid ref	E: 267123 N: 333596
(6E, 6N)	troopy.

Type of	Combined Sewer Overflow
Discharge	Cor.
Unique	SW6
Point Code	
Location	Park Street
Grid ref	E: 266996 N: 333605
(6E, 6N)	

Type of Discharge	Combined Sev	wer Overflow
Unique Point Code	SW7	
Location	Market Road	
Grid ref (6E, 6N)	E: 267045	N: 333500

Type of	Combined Sewer Overflow
Discharge	
Unique	SW8
Point Code	
Location	Coothill Road
Grid ref	E: 267324 N: 332645
(6E, 6N)	

Attachment B.5 should contain appropriately scaled drawings / maps (\leq A3) of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) In Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	✓	

B.6 Planning Authority

Give the name of the planning authority, or authorities, in whose functional area the discharge or discharges take place or are proposed to take place.

Name:	Monaghan County Council	
Address:	Planning Section	
	County Offices	
	The Glen	
	Monaghan	
Tel:	047 - 30500 mtl at 1	
Fax:	047 - 82739	
e-mail:	planning@monaghancoco.iext viic	

Planning Permission relating to the waste water works which is the subject of this application: - (tick as appropriate)

has been obtained	of co	✓	is being processed	
is not yet applied for	ent		is not required	

Local Authority Planning File Reference Nº:	not known
	

Attachment B.6 should contain **the most recent** planning permission, including a copy of **all** conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

Attachment included	Yes	No
	_	✓

File containing planning permission has been requested from Monaghan Town Council and will follow.

B.7 Other Authorities

B.7 (i) Shannon Free Airport Development Company (SFADCo.) area

Not applicable

The applicant should tick the appropriate box below to identify whether the discharge or discharges are located within the Shannon Free Airport Development Company (SFADCo.) area.

Attachment B.7(i) should contain details of any or all discharges located within the SFADCo. area.

Within the SFADCo Area	Yes	No
		✓

B.7 (ii) Health Services Executive Region

The applicant should indicate the **Health Services Executive Region** where the discharge or discharges are or will be located.

Name:	Health Service Executive
Address:	Regional Health Office, HSE Dubling and North East
	Dublin Road Dublin Road
	Kells, Co. Meath
Tel:	046 - 9280621 KOTAT
Fax:	046 - 9241784
e-mail:	rhodublinnortheast@maile.hse.ie

B.7 (iii) Other Relevant Local Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, not being the local authority in whose functional area the relevant waste water discharge or discharges, to which the relevant application relates, takes place or is to take place, to notify the relevant local authority of the said application.

Name:	Monaghan Town Council, Town Hall
Address:	1 Dublin Street
	Monaghan
	Co. Monaghan
Tel:	047-82600
Fax:	047-84549
e-mail:	clerk@monaghantc.ie

Relevant Authority Notified	Yes	No
	✓	

Attachment B.7(iii) should contain a copy of the notice issued to the relevant local authority.

Attachment included	Yes	No
	✓	

B.8 Notices and Advertisements

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations, 2007 require all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

Attachment B.8 should contain a copy of the site notice and an appropriately scaled drawing (\leq A3) showing its location. The original application must include the original page of the newspaper in which the advertisement was placed. The relevant page of the newspaper containing the advertisement should be included with the original and two copies of the application.

Attachment included	 Yes	No
	> &	

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

The population equivalent (p.e.) of the aggregation to be, or being, served by the waste water works should be provided and the period in which the population equivalent data was compiled should be indicated.

	<u>, v . ov</u>
Population Equivalent	30,000
Data Compiled (Year) &	2006
Method	Flow and load figures from WWTP
Copy	

B.9 (ii) FEES

State the relevant Class of waste water discharge as per Column 1 of the Second Schedule, and the appropriate fee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007, S.I. No. 684 of 2007.

Class of waste water discharge	Fee (in €)
	€ 30,000

Appropriate Fee Included	Yes	No
		√

B.10 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding, (local or national), allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

Attachment B.10 should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
	✓	

B.11 Significant Correspondence

Not applicable

Provide a summary of any correspondence resulting from a Section 63 notice issued by the Agency in relation to the waste water works under the Environmental Protection Agency Acts, 1992 and 2003, as amended by Section 13 of Protection of the Environment Act, 2003.

Attachment B.11 should contain a summary of any relevant correspondence issued in relation to a Section 63 notice.

Attachment included	Yes	No
	other	✓

B.12 Foreshore Act Licences.

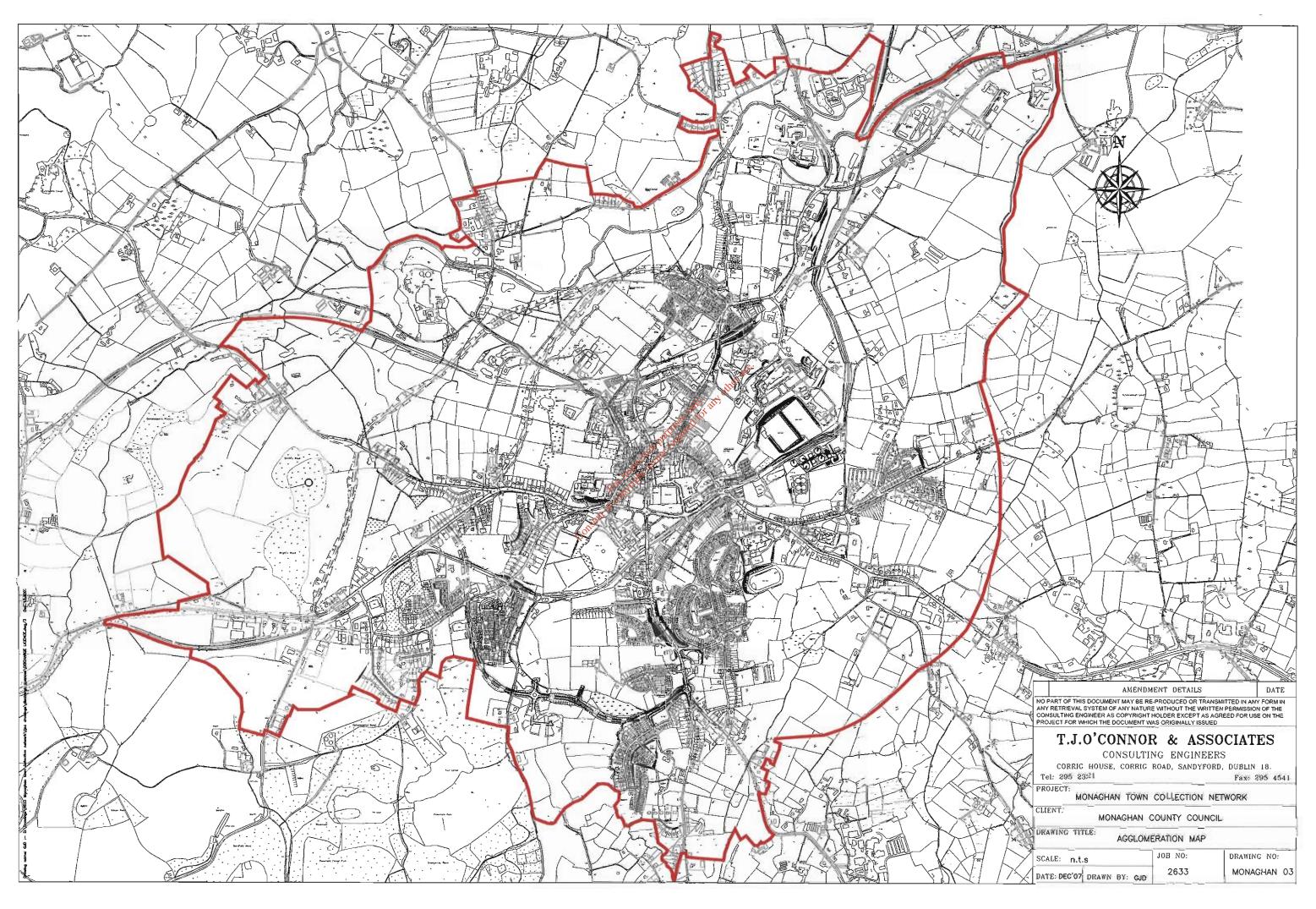
Not applicable

Provide a copy of the most recent Foreshore Act licence issued in relation to discharges from the waste water works issued under the Foreshore Act 1933 discharges from the waste water works issued under the Foreshore Act 1933.

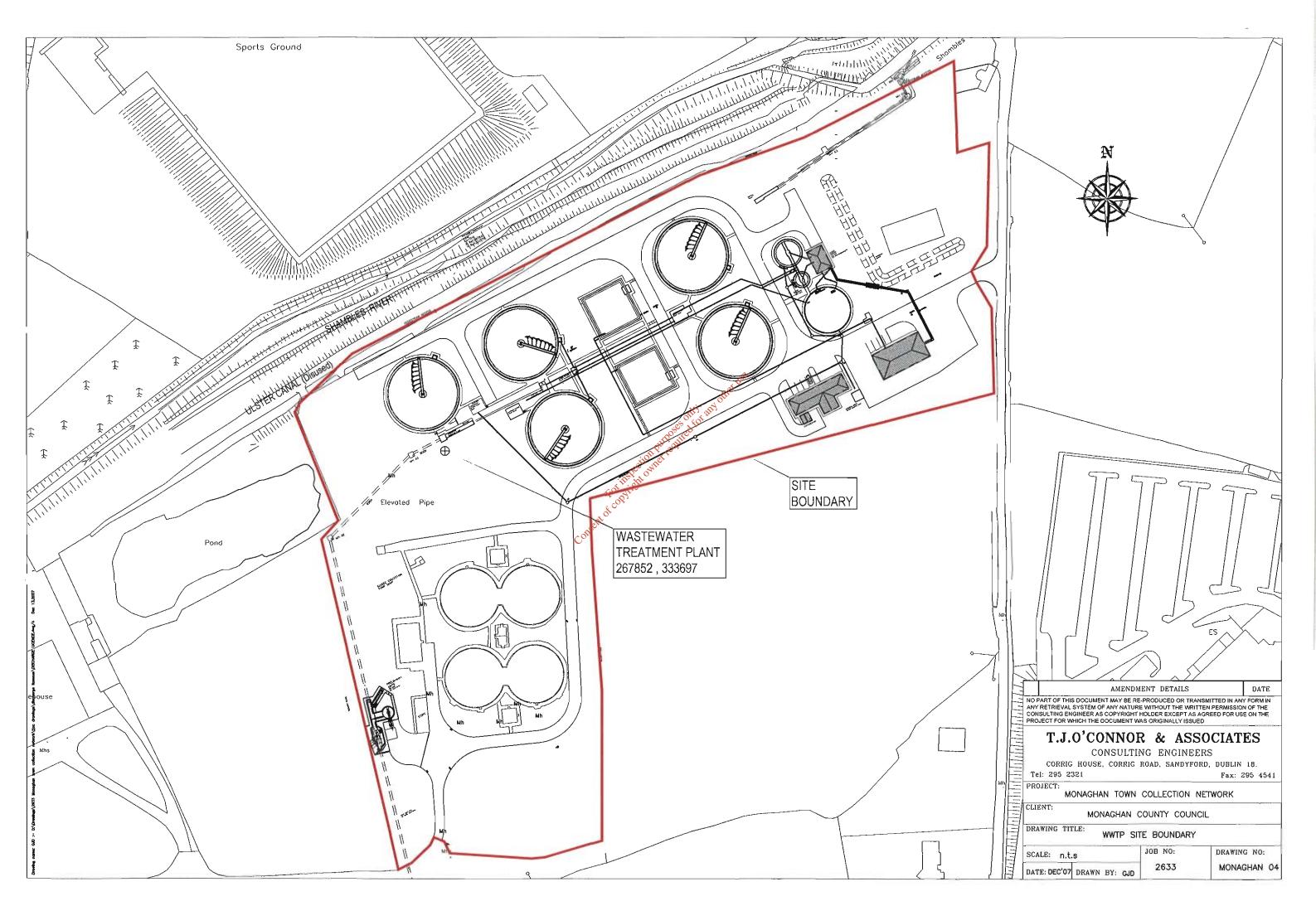
Attachment B.12 should contain the most recent licence issued under the Forsehore Act 1933, including a copy of all conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable.

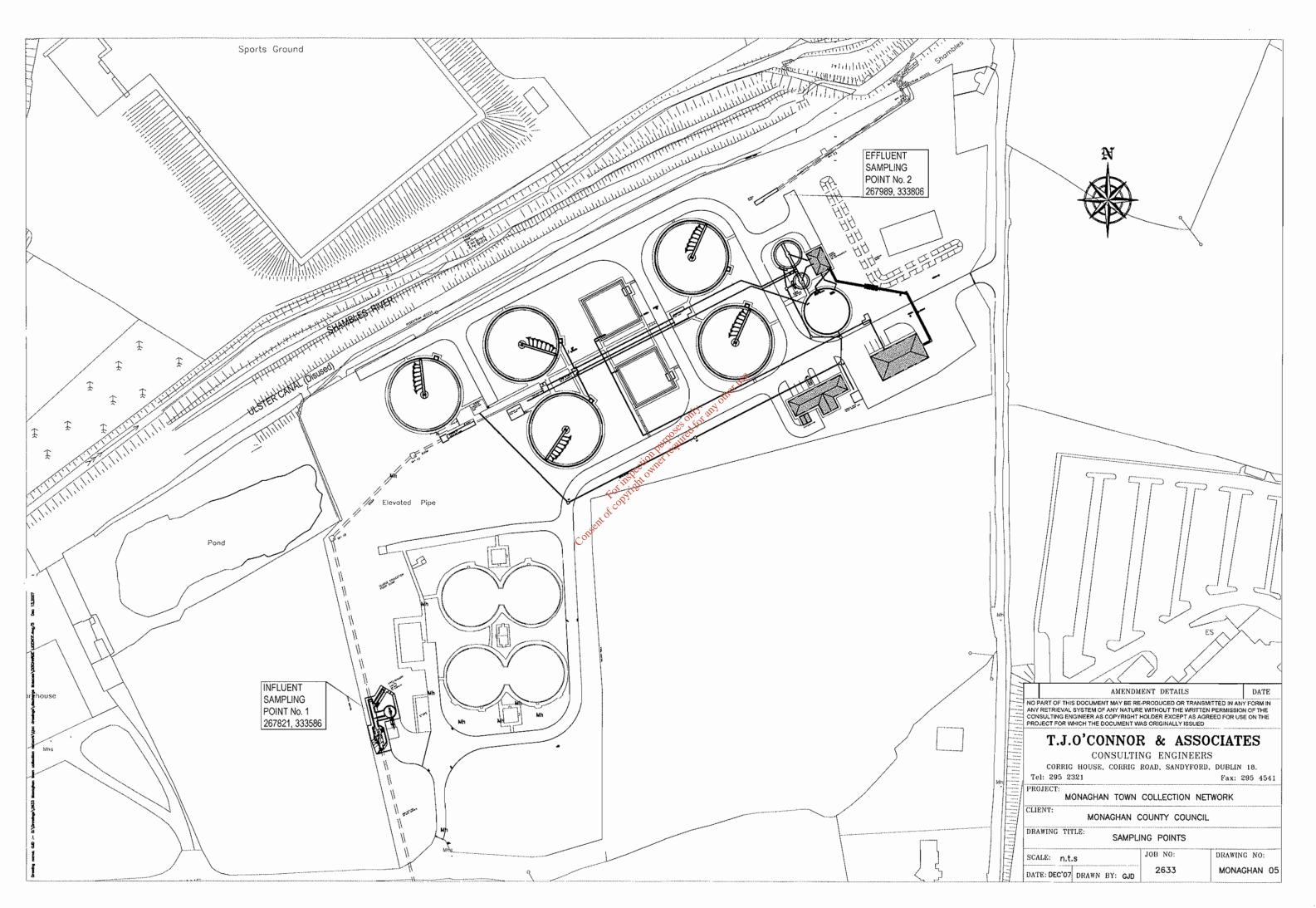
Attachment included	Yes	No
		✓

Drawing of the agglomeration served by the waste water works showing the boundary.

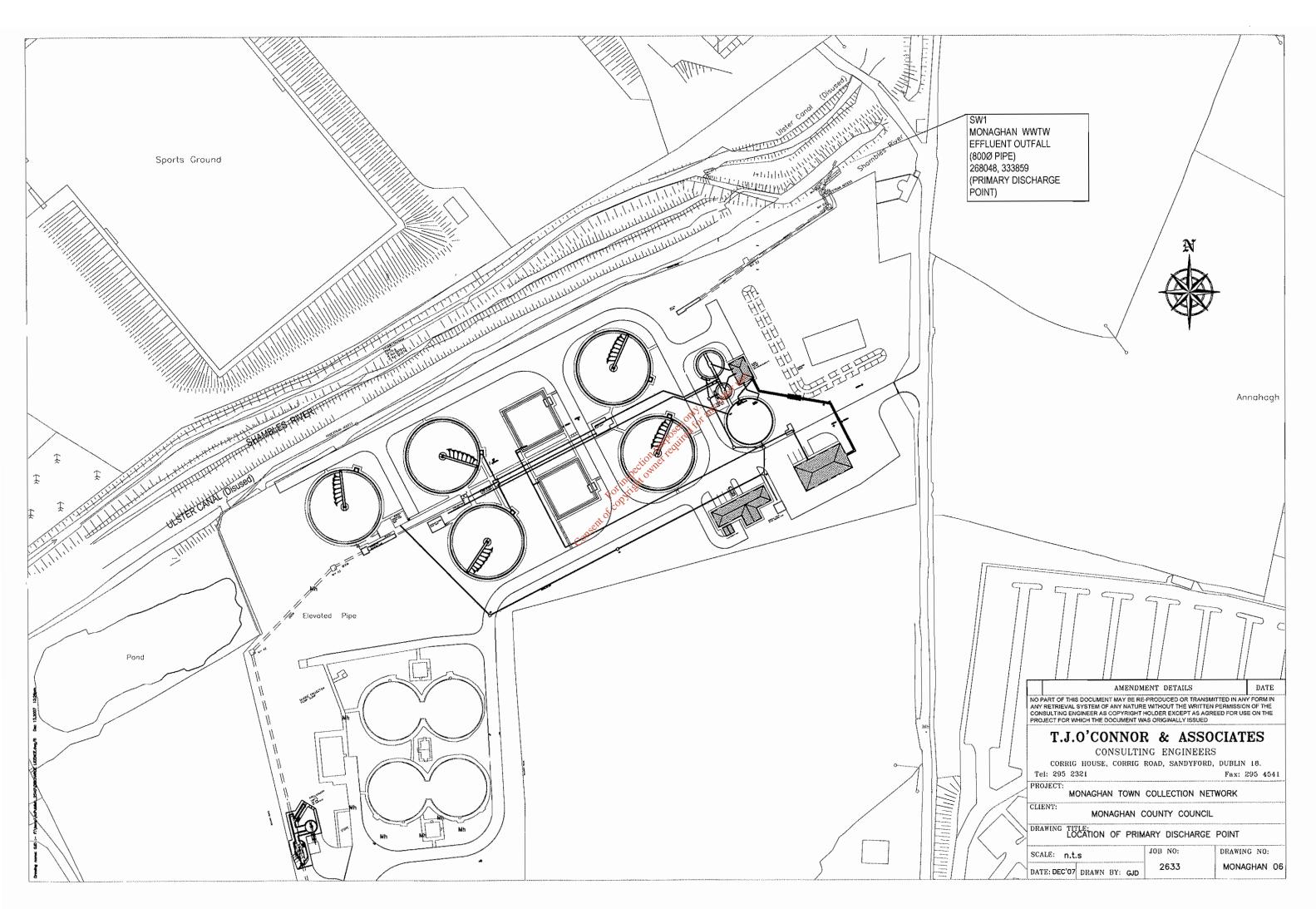


Drawings of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points.

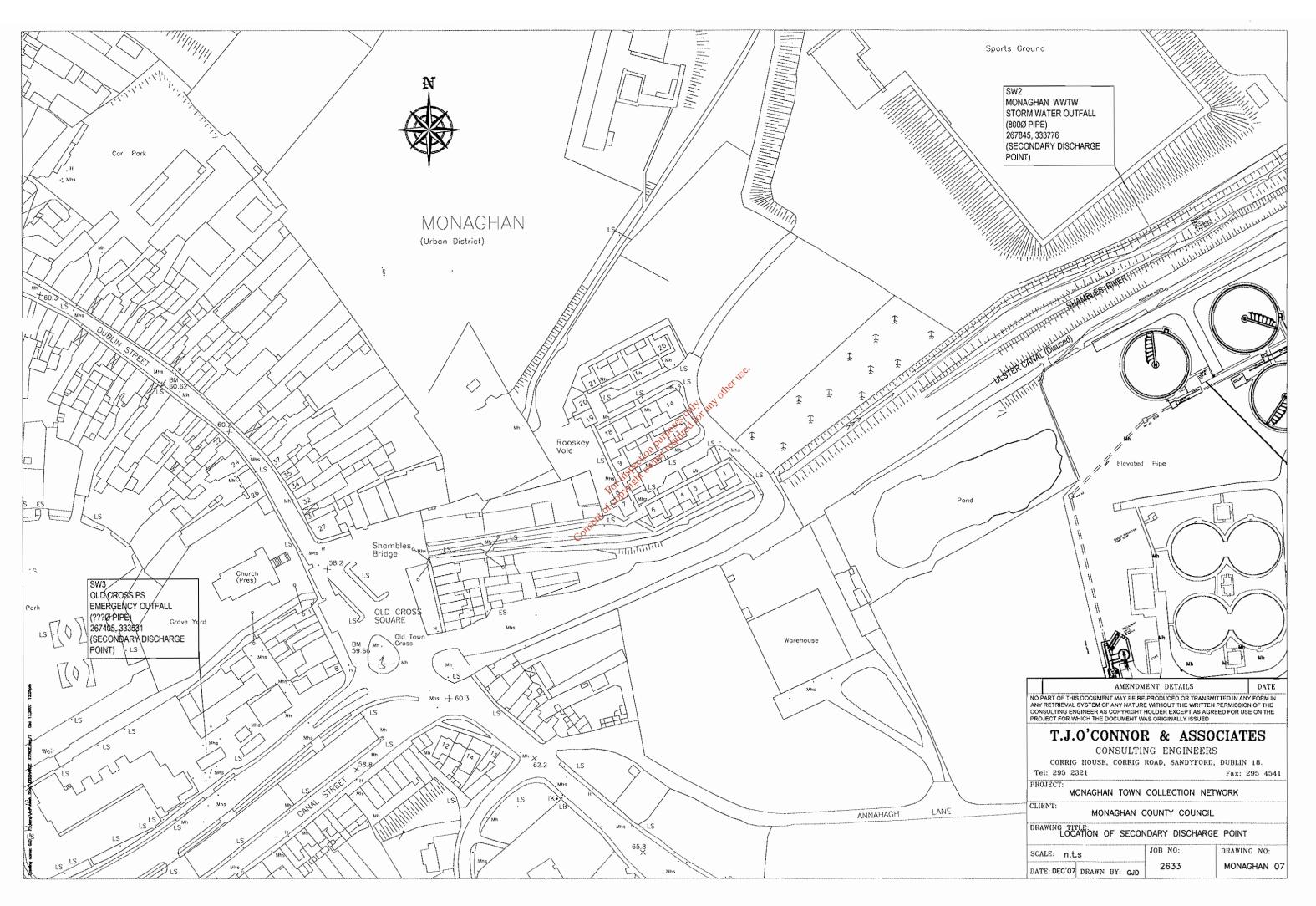




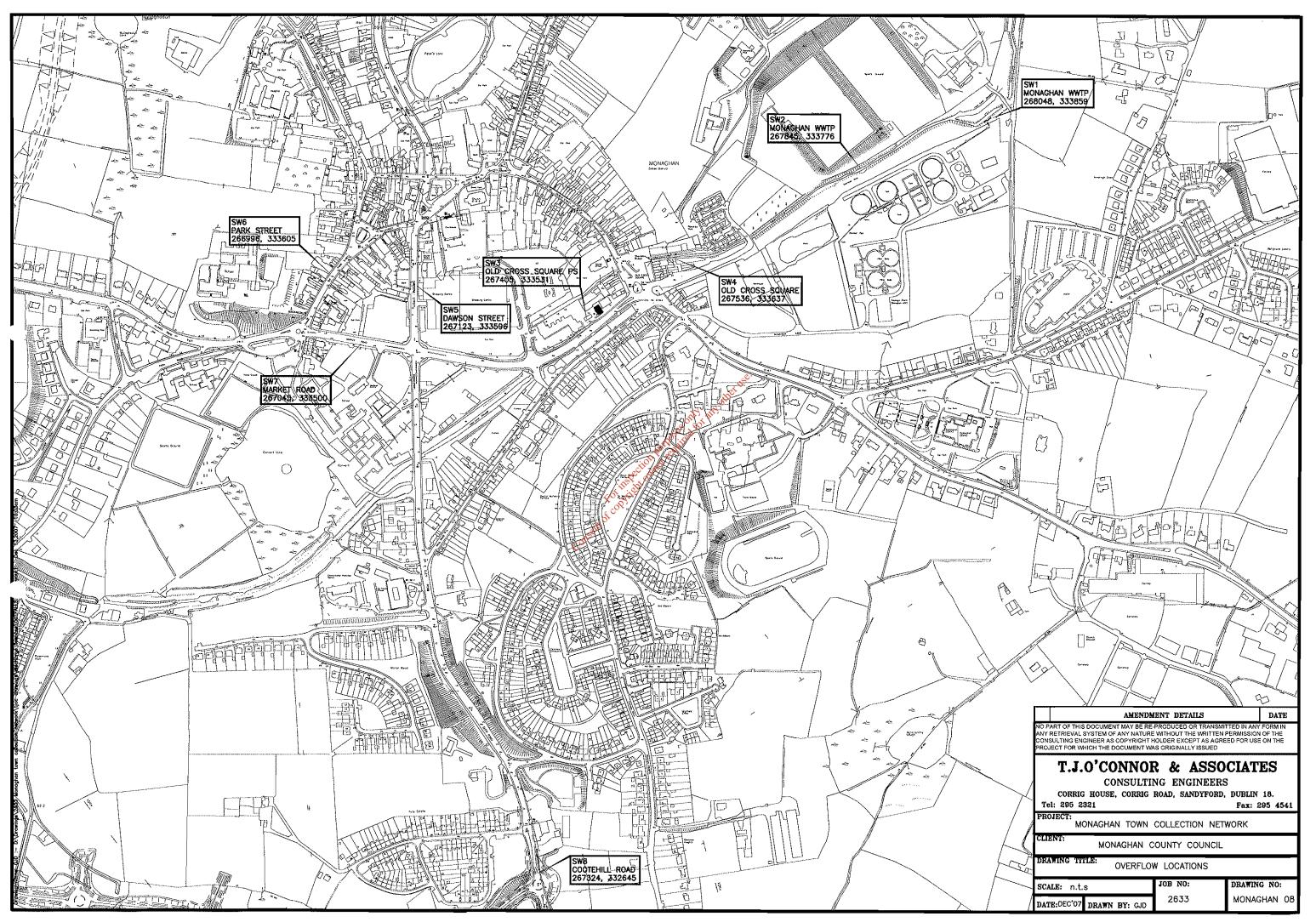
Drawings of the primary discharge point, including labelled monitoring and sampling points associated with the discharge point.



Drawings of the secondary discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s).



Drawings of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s).



The most recent planning permission, including a copy of all conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS.

File containing planning permission has been requested from Monaghan Town Council and will follow.

Attachment No. B.7 (i)

Location of discharges located within Shannon Free Airport Development Company area

Not Applicable

Attachment No. B.7 (iii)

A copy of the notice issued to the relevant local authority.

Community & Enterprise (047) 38140

Environment (047) 30592/30593

Finance (047) 30589

Fire/Building Control (047) 30521

Higher Education Grants (047) 30550

Housing Construction (047) 30529

Housing Loans/Grants (047) 30527

> Human Resource Management (047) 30586

Motor Taxation 047) 81175

Planning (047) 30532

Register of Electors (047) 30547

Roads (047) 30597

Water Services (047) 30504

COMHAIRLE CHONTAE MHUINEACHÁIN MONAGHAN COUNTY COUNCIL

Oifigí Contae, An Gleann, Muineachán.

Guthán: 047 - 30500



County Offices, The Glen, Monaghan.

Tel:047 30500 Fax: 047 82739

Email: <u>info@monaghancoco.ie</u> Website: www.monaghan.ie

The Town Clerk, Monaghan Town Council, Dublin St., MONAGHAN

07/12/2007

Re: Urban Wastewater Authorisation Regulations 2007

NOTICE OF INTENT TO APPLY FOR DISCHARGE LICENCE

A Chara,

I wish to advise that Monaghan County Council, Water Services, The Glen, Monaghan intend to apply to the EPA for a Discharge Licence for Monaghan Wastewater Treatment Plant and associated agglomeration. These facilities are in the functional area of Monaghan Town Council.

A copy of the application for the Waste Water Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie

and at

Monaghan County Council Offices, The Glen, Monaghan, Co. Monaghan, Telephone: 047 30500 Fax: 047 82739.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Gearoid McCarthy Water Services

Monaghan County Council

A copy of the site notice and a drawing showing its location



• Public Notices • Announcements • Situa

Contact our Advertising Office Monday to Friday tel: 047 82188 fax: 047 84070 email: ads@northern-standard.ie



Comhairle Contae Mhuineacháin www.monaghan.ie MONAGHAN COUNTY COUNCIL

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 684 of 2007, Water Services, of Monaghan County Council, The Glen, Monaghan, Co. Monaghan is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Carrickmacross Waste Water Treatment Plant, Magheross, Carrickmacross at the following locations:

Plant Name		Location	National Grid Ref.	
Carrickmacross		Magheross, E284557 N302799		
WWTP		Carrickmacross		
Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Magheross	Pooles	E284608 N302843
Secondary	Emergency	Magheross	Pooles	E284588 N302860
Secondary	Emergency	Farney St		E284333 N303692
Secondary	Emergency	Farney St		E284439 N303760
Secondary	Emergency	School Lands		E284500 N303500
Secondary	Emergency	Rockdaniel Rd		E284520 N304051
Secondary	Emergency	Cloughvalley		E284422 N304002
Secondary	Emergency	Rear of Main St		E284149 N303741
Secondary	Emergency	Lands off Chapel Lane		E284172 N303899
Secondary	Emergency	Parnell St		E283901 N303769
				4.4

It is intended to submit the Environmental Impact Statement associated with the proposed upgrading of the Waste Water Treatment Plant to the Agency along with the Application.

A copy of the application for the Waste Water Discharge Licence, the Environmental Impact Statement and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for impaction or purchase at the

• Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599
Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie

and at

• Monaghan County Council Offices, The Glen, Monaghan, Co. Monaghan, Telephone: 047 30500 Fax: 047 82739.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 684 of 2007, Water Services, of Monaghan County Council, The Glen, Monaghan, Co. Monaghan is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Monaghan Waste Water Treatment Plant, Tirkeenan, Monaghan at the following locations:

Plant Name]	Location	National Grid R	ef.
Monaghan		Tirkeenan,	E267912 N33373	38
WWTP]	Monaghan		
Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Tirkeenan	Shambles	E268048 N333859
Secondary	Emergency	Tirkeenan	Shambles	E267845 N333776
Secondary	Emergency	Old Cross Square	Shambles	E267405 N333531
Secondary	Emergency	Old Cross Square	Shambles	E267536 N333637
Secondary	Emergency	Dawson St	Shambles	E267123 N333596
Secondary	Emergency	Park St	Shambles	E266996 N333605
Secondary	Emergency	Market Rd	Shambles	E267045 N333500
Secondary	Emergency	Cootehill Rd	Shambles	E267324 N332645

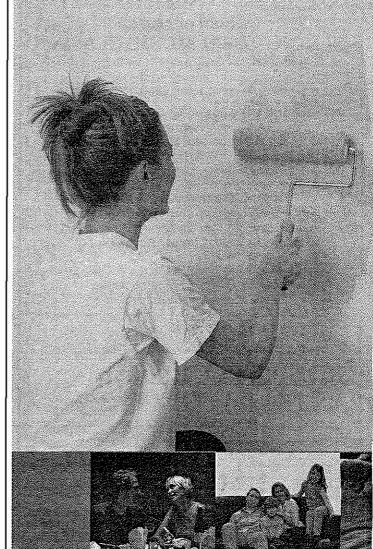
A copy of the application for the Waste Water Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

• Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie

and a

• Monaghan County Council Offices, The Glen, Monaghan, Co. Monaghan, Telephone: 047 30500 Fax: 047 82739.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above



Affordable Homes are now available in Lisda This is a great opportunity for first time buy discount to the market value.

3 bedroom house from €140.000

4 bedroom house from €144,000

On the open market these houses would cost around €180,000 - €210,000

Monaghan County Council currently have 2 storey detached houses to self the Affordable Housing Scheme at Lisdarragh, Newbliss, Co. Monaghan.

An affordable home is provided at a discount to the market price to qualifyifirst time buyers. If you sell within 20 years you will have to pay back a perc of the sale price.

- TO QUALIFY YOU MUST:
- be first time buyers (certain exceptions apply)
- be currently permanently employed
- have savings to cover a deposit of 3%
 become an owner occupier

Limited availability also remaining in Corlatt, Knockatallon, Co. Monaghan starting from

Further information and application forms available at www.monaghanacoco.ie or contact Bernie in Housing Loans & Grants on 047 30503.

Information Day: Carrickma Friday 14th Decem Venue - Workhouse, Sherco

Monaghan County Council invites Local Traders and other intered December in the Workhouse, Shercock Road, Carrickmacross betwo The Carrickmacross Sewerage Scheme is of major importance to the rons. It comprises of two major work elements, the first of which replacement and extension of the existing sewer collection networ ment and expansion of the existing wastewater treatment plant. This information day is open to all and shall inform the public, located be carried out under the Carrickmacross Sewerage Scheme and packed to the schemes appointed contractor, consultant and Monaghan County (



MONAGHAN COUNTY COUNCIL

SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation)
Regulations 2007, Water Services, Monaghan County Council, The Glen,
Monaghan is applying to the Environmental Protection Agency for a
Waste Water Discharge Licence for Monaghan Waste Water Treatment
Plant, Tirkeenan, Monaghan, at the following locations:

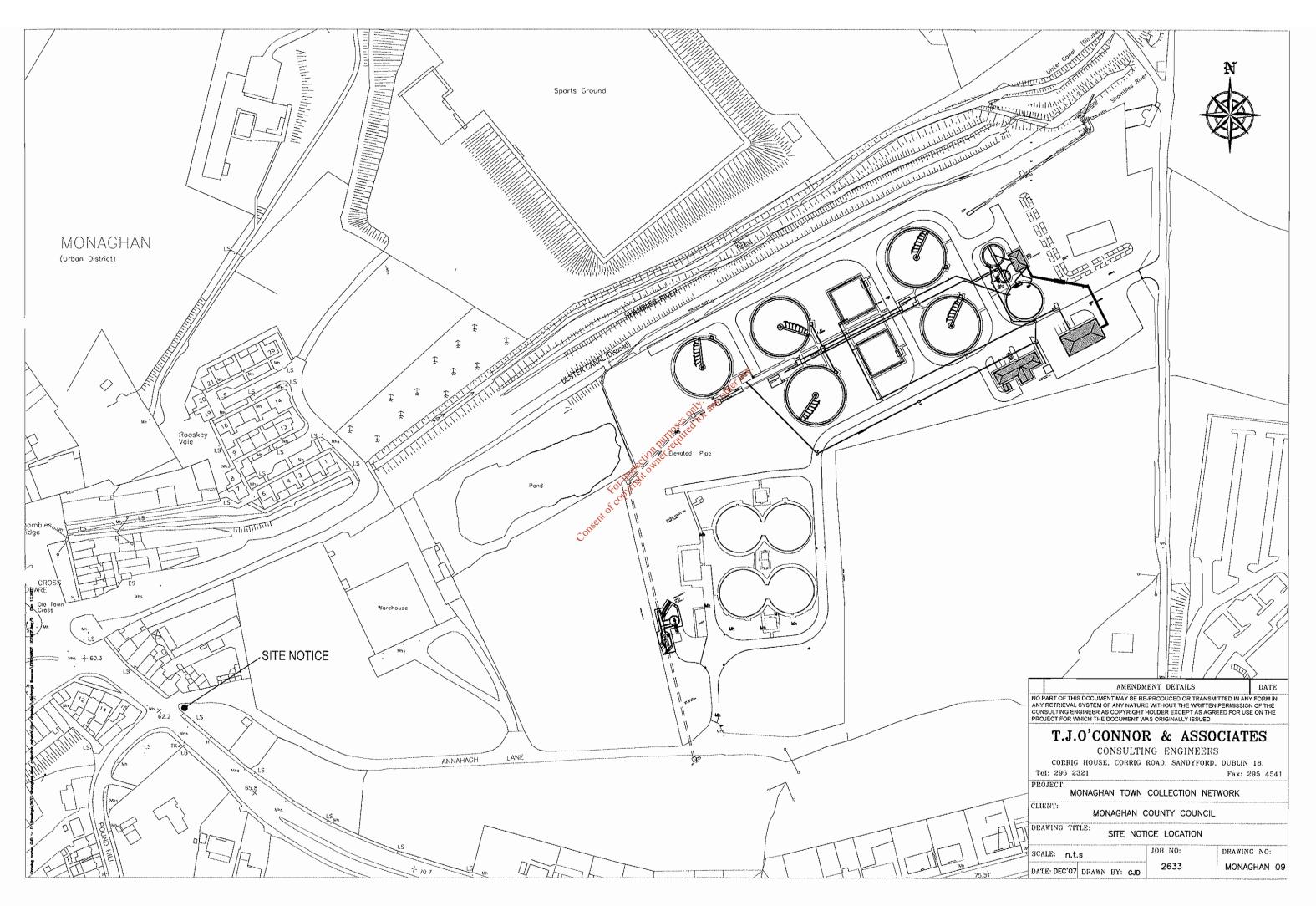
Plant Name	Location	National Grid Ref.	
Monaghan WWTP	Tirkeenan,	E267912 N333738	
	Monaghan	<u>~</u> €.	

Discharge	Function	Townland S	Receptor	Grid Reference
Primary	Main	Tirkeenan	Shambles	E268048 N333859
Secondary	Emergency	Tirkeenan	Shambles	E267845 N333776
Secondary	Emergency	Old Cross Square	Shambles	E267405 N333531
Secondary	Emergency	Old Cross Square	Shambles	E267536 N333637
Secondary	Emergency	Dawson St	Shambles	E267123 N333596
Secondary	Emergency	Park St	Shambles	E266996 N333605
Secondary	Emergency	Market Rd	Shambles	E267045 N333500
Secondary	Emergency	Coothill Rd	Shambles	E267324 N332645

A copy of the application for the Waste Water Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie and at
- Monaghan County Council Offices, The Glen, Monaghan, Co. Monaghan, Telephone: 047 30500 Fax: 047 82739.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above



Attachment No. B.10

Development programme including copies of approved funding and timeframes for completion.

Consent of copyright owner required for any other use.

Development Programme Including Copies of Approved Funding and Timeframe for Completion

Monaghan Sewerage Scheme

Monaghan County Council proposes to upgrade and extend the existing sewage network to serve the town and its environs.

Contract documents for the Scheme have been prepared and construction of the Advanced Works will commence end 2008.

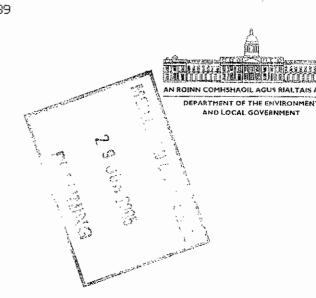
Enclosed is the Executive Summary of the Scheme and a copy of the Department of Environment's approval to proceed with the project and allocated funding.

Consent of copyright owner required for any other use.

- Town Clerk - Dood - Co way

27thJune 2005.

Mr. Paul Clifford,
Director of Services,
Monaghan County Council,
The Glen,
Monaghan.



AL SCHIN COMHSHAUL

POUS REPUBLIS ACTIONS

DEPARTMENT OF

THE ENVIRONMENT AND

C OVERNMENT

3) DELT, URLANZ

ELPROSENTA LATERALLISE

VEMILAMINETRESCH JOCHT

PRINT SHIP CHATE THE

BLOCK 1, FLOOR 2

MISH LIFE CENTRE

LOWER ASSEY STREET

DURIN I

Tel No: +353 1 888 2000

LeCell No: 1890 20 20 21

For No. + 353 1 888 2687

RE: MONAGHAN TOWN SEWERAGE SCHEME - APPROVAL OF PRELIMINARY REPORT

Dear Mr. Clifford,

I am directed by the Minister for the Environment, Heritage and Local Government to convey approval to the Preliminary Report submitted by Monaghan County Council for Monaghan Town Sewerage Scheme (Collection Network).

This approval is subject to:

- the proposed draft brief for the appointment of a Client's Representative including, as a minimum, a review of the Preliminary Report and a value engineering exercise in relation to the overall design, i.e. Combined Storm overflow, Rotating Bar Interceptors, Pumping Stations etc;
- the submission of a Water Charging Policy Report;
- the submission of a report from the Senior Engineer;
- the Director of Services must submit a report in line with the Department's letter to all Directors of Services dated 18th February 2002.

+35347 82739

Monaghan County Council should now submit a draft brief for the appointment of a Client's Representative to the Department for approval in line with the first recommendation above.

Should you have any queries with regard to the above then you can contact me at the number below.

Yours sincerely,

David Mehlhorn,

Higher Executive Officer,

Water Services Section.

Tel. 01 888 2150.

Consent of copyright owner required for any other use.

Monaghan

Water Services Investment Programme 2007 - 2009

Schemes to start 2007	W/S	Est. Cost
Carrickmacross Sewerage Scheme		22,000,000
		22,000,000
		`,
Schemes to start 2008		
Castleblaney/Bailybay/Clones Wastewater Treatment Plant	S	12,000,000
		12,000,000
Schemes to start 2009		•
Monaghan Sludge Management (H)	\$	2,570,000
Monaghan Town Sewerage Scheme (H)		27,500,000
		30,070,000
Serviced Land Initiative		
Monaghan Town Sewerage Scheme (North Eastern Collection Area)(H)		2,700,000
Nec.		2,700,000
other control of the		
Rural Towns and Villages Initiative		
Carrickmacross Water Supply Scheme	W	4,500,000
Castleblaney Water Supply Scheme Stage 2	W	1,100,000
Monaghan Town Sewerage Scheme (North Eastern Collection Area)(H) Rural Towns and Villages Initiative Carrickmacross Water Supply Scheme Castleblaney Water Supply Scheme Stage 2 Water Conservation Allocation Asset Management Study Programme Total		5,600,000
Water Conservation Allocation : In the Conservation Allocation		3,185,000
For This is the state of the st		0,100,000
Asset Management Study		50,000
egit O'		
Cans		
Programme Total		75,605,000

(H) Refers to a Hub as designated in the National Spatial Strategy



MONAGHAN TOWN COLLECTION NETWORK

Review of Preliminary Report



Prepared For: Monaghan County Council The Glen Monaghan

Prepared By: T. J O' Connor & Associates Corrig House Corrig Road Sandyford Dublin 18

March 2007

EXECUTIVE SUMMARY

This report describes the results of a study of the combined and surface water collection systems serving the town of Monaghan in County Monaghan. The report was commissioned by Monaghan County Council and comprises a review of an earlier preliminary report on the Monaghan Town collection system in 1995 and subsequent updated report in 2001. The 1995/2001 reports examined the condition and capacity of the collection systems at that time and the requirements of the system over a twenty-year design horizon. In addition to a review of the 1995/2001 report, this report also considers the servicing of zoned lands in the environs of the town under the Monaghan Town Draft Development Plan of 2006-2012.

Monaghan Town is the county town of County Monaghan and is both the administrative and commercial centre for the county. The population of the town as of the 2006 census is 6,250 of which 2,187 are within the town boundary and 4,063 are outside the town boundary. Monaghan is an historical town of notable architectural character with structures of particular note such as St. Macartan's Cathedral. A number of the houses in the immediate environs outside the town council boundary are one-off developments and are not connected to the main drainage system. Monaghan Town is designated a hub town under the National Spatial Strategy and in common with many other towns in the country it has undergone a considerable amount of urban expansion in recent years. This rate of growth is expected to be maintained and to increase following the completion of a partial bypass of the town in 2006. The existing collection system discharges to a wastewater treatment works located at Pirkeenan, southeast of the town. The treatment works discharges the treated effluent to the Shambles River which in turn discharges to the Blackwater River.

The sewerage system serving the town comprises a mixture of separate and fully combined drainage areas, with the town centre being mainly combined and the newer developments having separate foul and surface water systems. The trunk sewer for the much of the town is laid along the route of the Old Ulster Canal and discharges to a pumping station at Old Cross from where it is pumped forward to the treatment works at Tirkeenan. Topographical constraints dictate that there are a number of pumping stations on the system, both to the north and the south of the town.

The combined sewerage system is relieved at various points on the network by combined sewer overflows (CSOs). These discharge to surface water sewers and culverts in storm conditions which in turn discharge to the Shambles River in the centre of the town. Under normal conditions the overflows control the flows in the combined sewerage system but in more recent times there have been a number of instances of surcharging of the sewers with some overflow to the surface at the Market Road / Dawson Street / Glen Road junction. Flooding of the public carpark area adjacent to the shopping centre is also noted to occur during heavy or persistent rainfall events.

The 1995/2001 preliminary reports recommended the complete abandonment of the overflows and other additional measures to upgrade the system to cater for the expected hydraulic loads. These measures

mainly comprised upsizing of the main trunk sewer, the replacement of structurally damaged sewers identified from a CCTV survey, the upsizing of miscellaneous hydraulically deficient pipelines in various parts of the town and the provision of surface water sewers in the town centre area. The basis of the hydraulic design of the remedial measures was a mathematical model of the existing system. This model was re-developed to include all the proposed developments indicated by the planning officers and those designated in the current draft development plan for the town.

In addition to the increased flows in the combined system associated with the abandonment of the overflows, there is also expected to be significantly increased flows from both residential and commercial / industrial development both within and outside the town council boundary. The extent of the developments likely to take place has been assessed with reference to the Monaghan Draft Development Plan of 2006-2012, as well as planning applications submitted to both Monaghan Town Council and Monaghan County Council. With the abandonment of the overflows as recommended, and the connection of the new developments projected, much of the existing combined sewerage system is predicted to become severely overloaded with flooding predicted from manholes at a number of points on the system for rainfall events with return periods of two years and less. Accordingly, substantial upgrading measures will be required to accommodate the increased flows.

A number of revisions to the proposals submitted as part of 1995 and 2001 Preliminary Reports have been made in this report. These include:

- Abandonment of the proposed re-location of Old Cross Pumping Station to a site adjacent to existing wastewater treatment plant following receipt of ground investigation information as well as buildability and archaeological considerations.
- Replacement / upgrading of the existing sewer along the Ulster Canal.
- Replacement of foul sewers on High Street / Hill Street / Park Street, Glasslough Street and Dublin Street, the Old Armagh Road, Glen Road / Ballybay Road
- Some amendments to the proposals for the surface water sewers to the town centre in terms of their respective discharge locations.

In addition to these revisions, the collection network was re-modelled taking account of the current Draft Development Plan 2006-2012 and the zonings attaching thereto. For the purpose of the report the catchment was divided into a number of areas two of which, Mullaghmore East and Emyvale Road area and the Old Armagh Road area have been advanced as separate Serviced Land Initiative (SLI) schemes since the production of the original and updated preliminary reports and were therefore excluded from consideration under this review.

This report includes a detailed assessment of the works required to accommodate the increased flows and to provide sewers to previously unserviced lands and developments. The works proposed are defined on the drawings accompanying this report including both plans and longitudinal sections. The total meterage of pipelines to be constructed comes to some 24.5 km with a further 5.38km of rising mains associated with

the various new pumping stations. The cost of the works proposed has been estimated using rates from recently returned tenders for works of a similar size and nature. A complete breakdown of the estimates is provided in Appendix A of this document and the total construction cost has been estimated at € 20.65 M including VAT.

Based on information available from local authority records in relation to water service pipework in the town the presence of a considerable number of old cast iron and lead watermains within the main town centre area can be expected. Much of this pipework will be in excess of fifty years of age and can be expected to be encrusted and brittle in nature. Previous experience of similar type pipelaying schemes as that to be undertaken in Monaghan has shown that when ground disturbance associated with the proposed pipelaying works occurs, it can be expected that much of the existing watermains of the types listed above will begin to fracture and leak even at locations where the proposed pipe works are not immediately adjacent to the watermains. Accordingly, an assessment has been carried out of the cost of replacement of these watermain in the town centre area and is likely to be in the order of € 1.45M inclusive of VAT.

Consent of copyright owner reduced for any other use.

Attachment No. B.11

Relevant correspondence issued in relation to a Section 63 Notice

Not Applicable



Attachment No. B.12

The most recent licence issued under the Foreshore Act 1933

Not Applicable

