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RE: Draft Monaghan County Development Plan Submission

Dear Laura,

Irish Water acknowledges receipt of your letter and welcomes the opportunity to review the Draft Monaghan County Development Plan 2019 – 2025 (Draft CDP).

Capacity to accommodate Growth

We have reviewed the population projections proposed in the Draft CDP and provided commentary in relation to water services infrastructure. Commentary on wastewater treatment infrastructure in the Tier 1, 2, 3 and 4 settlements is addressed in the table attached and commentary on water supply capacity is summarised in the table below.

Water Supply Zone	Comment
LERWSS	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP.
Clones	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP.
Newbliss	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP.
Carrickmacross	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP.
Innishkeen (DBO)	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP.

Monaghan	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP.
Smithborough	It is envisaged that there is adequate capacity to meet the 2025 population targets outlined in the Draft CDP, although some upgrade works may be required.
Emyvale	Irish Water are a customer of Glaslough-Tyholland Group Water Scheme
Drum	Irish Water are a customer of Drumgoole Group Water Scheme
Glaslough	Irish Water are a customer of Glaslough-Tyholland Group Water Scheme
Drummond	Irish Water are a customer of Magheraclon Group Water Scheme

In addition, a high level review of the serviceability of the proposed residential and industrial zoned sites in Monaghan town, Carrickmacross, Castleblaney, Clones and Ballybay has been carried out and is included in this submission. All new developments wishing to connect to the Irish Water infrastructure will be assessed through the New Connections process to confirm the requirements in relation to network and treatment capacity. Irish Water is preparing a Water Connection Charging Policy to standardise charges nationally, details on this can be found at https://www.cru.ie/document_group/water-connection-charging-policy/.

Projects and Activities

The following are a list of projects on Irish Water's 2017-2021 Capital Investment Plan in County Monaghan:

- Castleblaney Sewerage Scheme Phase 1 - WWTP, estimated year of completion is 2019;
- Lough Egish RWSS Upgrade of WTP, estimated year of completion is 2018;
- Monaghan Water Conservation, replacement of most problematic watermains and Active Leakage Control is ongoing;
- Carrickmacross WWTP, estimated year of completion is 2020;
- Monaghan Town WW Network – Drainage Area Plan, estimated year of completion is 2019.

In addition to ongoing and planned water services projects it is likely that further projects will be identified under the following initiatives:

- Irish Water 2020-2024 Investment Plan, preparation of which is currently underway;
- Drainage Area Plan for Monaghan town which commenced in 2017;

Category	Item
Introduction	1. Introduction to the course
Learning Objectives	2. Learning objectives of the course
Course Content	3. Course content and topics
Assessment	4. Assessment methods and criteria
Support	5. Support services available

In addition to the text, there is a video of the course content. The video is available on the course website. The video is a 10-minute overview of the course. It covers the learning objectives, the course content, and the assessment methods. The video is a good starting point for students who are new to the course. It provides a clear overview of what to expect from the course. The video is available in English and Spanish. It is a useful resource for students who are looking for more information about the course.

- The course is designed to provide students with a comprehensive understanding of the subject matter.
- The course is delivered through a combination of lectures, seminars, and practical exercises.
- The course is assessed through a combination of written and practical examinations.
- The course is supported by a range of resources, including textbooks, lecture notes, and online materials.
- The course is taught by experienced lecturers who are experts in their field.
- The course is available to students from a wide range of backgrounds.
- The course is a compulsory part of the degree program.
- The course is a key component of the degree program.

In addition to ongoing and assessed work, students will be expected to complete a final project. The project is a major piece of work that is completed at the end of the course. It allows students to demonstrate their understanding of the subject matter and to apply their knowledge to a real-world problem. The project is assessed by a panel of experts in the field. It is a valuable experience for students and a key component of the degree program. The project is available to students from a wide range of backgrounds. It is a compulsory part of the degree program. The project is a key component of the degree program.

- The National Certificates of Authorisation Programme is currently underway which will review treatment plants with Certificates of Authorisation and identify and prioritise those in need of upgrade. Works will be progressed on a priority basis as funding becomes available. A number of WWTPs nationwide will be selected for upgrades as a pilot project under this programme.

Comments on the Draft CDP

Irish Water have reviewed the Draft CDP and suggest the following amendments (additions in red, deletions in strikethrough):

Draft County Development Plan, Section 8.11 Irish Water, paragraph 4,

~~'Irish Water is responsible for the treatment and disposal of wastewater in towns and villages'~~

Irish Water are responsible for the operation of all public wastewater services in towns and villages.

Strategic Environmental Assessment, Section 4.8.1.1, paragraph 2,

~~...The function and role of Irish Water includes:~~

~~– Abstracting and treating water;~~

~~– Delivering water and waste water services to homes and businesses;~~

~~– Installing water meters and billing domestic and business customers;~~

~~– Raising finance to fund improvements and repairs in the water system; and~~

~~– Maintaining and operating the water system....~~

Irish Water are responsible for the operation of all public water and wastewater services including:

- *Management of national water and wastewater assets;*
- *Maintenance of the water and wastewater system;*
- *Investment and planning;*
- *Managing capital projects;*
- *Customer care and billing.*

Strategic Environmental Assessment, Section 4.8.1.2, paragraph 1,

~~'... These vary in size from Monaghan Town Waste Water Treatment Works (WWTW) which has a design capacity of 44,000 37,400 population equivalent....'~~

Table 4.2 Public Waste Water Treatment Information – we note that the 2017 Irish Water Annual Environmental Reports are now available on www.epa.ie.

Irish Water has a suite of policies/ objectives which we would like to suggest to the Council for inclusion in the County Development Plan in relation to protecting Irish Water assets and the environment for the benefit of current and future population served by

public water services networks. We have attached these policies/ objectives to this submission.

Irish Water is available for discussion in relation to the future sustainable development of the area and any other issues with respect to the provision of water services within our remit.

Yours Sincerely,



Suzanne Dempsey
Spatial Planning Strategy Specialist

Attached:
Summary Table
Menu of Policy Objectives

1. The first step is to identify the key components of the system. This includes the hardware, software, and data. It is important to understand how these components interact and how they are used by the users.

2. The second step is to analyze the system. This involves identifying the strengths and weaknesses of the system, as well as the areas that need improvement. This analysis should be based on the requirements of the users and the goals of the organization.

Your Name

[Handwritten Signature]

System Analyst
Special Training Group

Project
System
Name

Settlement	WW Network Zoning Comment	Water Network Zoning Comment
County	A high level review of water services in the zoned sites has been carried out; potential serviceability issues have been highlighted below. Note: Demand requirements will vary depending on the extent and type of development, particularly for industrial developments where demand requirements can be high. All new developments are to be assessed through the New Connections process which will determine exact requirements in relation to network and treatment capacity.	
Monaghan	<p><u>General</u> As noted previously, an upgrade of the trunk main from Dawson St/ Clones Rd junction to Cross Street PS is required, development in the catchment upstream of this bottleneck is limited until the upgrade is completed.</p> <p><u>Residential</u> Sites 25, 26- upgrade/ extension may be required. Sites 1,3,5 - not serviced, extension required. Site 7 - short extension may be required. Network extensions may be required to service the strategic reserve site to the north-west.</p> <p><u>Industrial</u> Knockaconny- this area is not currently serviced, provision for future connection allowed during construction of the Combilift wastewater network. Mullaghadun - not serviced, extension required. West extremity of network - upgrades/ extension may be required.</p>	<p><u>Residential</u> Sites 10, 11, 12 - depending on the extent of development, network upgrades may be required. Sites 20 to 26 and Killygowan SRR site- if a number of these sites were to proceed, network upgrades may be required.</p> <p><u>Industrial</u> The ability to service industrial sites will depend on the demand required. In addition, as the Industrial zoned sites to the north-east of Monaghan town are at the extremity of the network, upgrades may be required to service these.</p>
Carrickmacross	<p><u>Residential</u> Site 17 - PS upgrade may be required</p> <p><u>Industrial</u> Monanny (east of N2) - extension may be required if this area is not serviced. Monanny (west of N2) - upgrade may be required. Drummondetra- extension and/or upgrade may be required Magheross - capacity check required</p>	<p><u>Residential</u> should the Strategic Residential Reserve sites be brought forward for zoning in the south/ south-east of the town boundaries, upgrades and/ or network extensions may be required.</p> <p><u>Industrial</u> Upgrades may be required to service the southern most industrial zoned sites.</p>
Castleblayney	<p><u>General</u> Ongoing works will resolve the bottleneck at Muckno PS.</p> <p><u>Industrial</u> West - network extension required Monaghan Road- subject to capacity assessment, upgrade may be required</p>	
Clones	<p><u>Industrial</u> Eastern extremity - not currently serviced</p>	Depending on the extent of development, network upgrades and/ or network extensions at the may be required to service zoned sites at the extremities of the network e.g. R183 Newtownbutler oad, N54 to Monaghan, Millbrook Lane.
Ballybay	<p><u>Residential</u> Site 2 - extension may be required. SRR - short extension required at site adjacent to Wylie's Hill estate</p> <p><u>Industrial</u> Network extensions required to serve sites at the north-west extremity of the network.</p>	

Area of Responsibility	Description of Activities	Status
Academic Affairs	Review of curriculum and program changes, including the implementation of the new degree requirements for the B.S. and M.A. degrees.	Completed
Financial Affairs	Review of the budget and financial statements, and the implementation of the new financial reporting system.	Ongoing
Human Resources	Review of the personnel policies and procedures, and the implementation of the new compensation system.	Ongoing
Legal Affairs	Review of the legal issues and the implementation of the new legal reporting system.	Ongoing
Physical Plant	Review of the physical plant and the implementation of the new physical plant reporting system.	Ongoing
Public Affairs	Review of the public relations and the implementation of the new public relations reporting system.	Ongoing
Student Affairs	Review of the student affairs and the implementation of the new student affairs reporting system.	Ongoing
University Administration	Review of the university administration and the implementation of the new university administration reporting system.	Ongoing

Menu of appropriate Objectives/Policies for Water Services in development plans

General Policies in relation to Water Services

- a) To work closely with Irish Water to identify and facilitate the timely delivery of the water services required to realize the development objectives of this plan;
- b) When identifying areas for development, to ensure that full consideration is given to the level of investment that will be required in the provision of water services – particularly in environmentally sensitive areas - to ensure that the provision of water services does not negatively impact on habitat quality, species diversity or other environmental considerations
- c) To facilitate the provision of integrated and sustainable water services through effective consultation with Irish Water on the layout and design of water services in relation to the selection and planning of development areas and the preparation of master plans and SDZs;
- d) To maximise the use of existing capacity in water services in the planning of new development;
- e) To ensure that adequate water services will be available to service development prior to the granting of planning permission for those developments and to require developers to consult Irish Water regarding available capacity, prior to applying for planning permission;
- f) To protect existing way leaves and buffer zones around public water services infrastructure through appropriate zoning and to facilitate the provision of appropriate sites for required water services infrastructure as necessary;
- g) To ensure that development proposals comply with the standards and requirements of Irish Water in relation to water and wastewater infrastructure to facilitate the proposed developments

Water Supply

- h) To protect both ground and surface water resources and to work with Irish Water to develop and implement Water Safety Plans to protect sources of public water supply and their contributing catchment;
- i) To minimise wastage of water supply by requiring new developments to incorporate water conservation measures;
- j) To promote water conservation and demand management measures among all water users;

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Wastewater Services

- k) To ensure that the Local Authority provides adequate storm water infrastructure in order to accommodate the planned levels of growth within the plan area and to ensure that appropriate flood management measures are implemented to protect property and infrastructure;
- l) To require all new development to provide a separate foul and surface water drainage system and to incorporate sustainable urban drainage systems;
- m) To prohibit the discharge of additional surface water to combined (foul and surface water) sewers in order to maximise the capacity of existing collection systems;
- n) To support Irish Water in the promotion of effective management of trade discharges to sewers in order to maximise the capacity of existing sewer networks and minimise detrimental impacts on sewage treatment works;
- o) To refuse residential development that requires the provision of private waste water treatment facilities, other than single house systems;
- p) To ensure the changeover from septic tanks to collection networks in all cases where this is feasible (subject to connection agreements with Irish Water) and that all new developments utilise and connect to the public wastewater infrastructure. The provision of individual septic tanks and treatment plants in the plan area will be strongly discouraged to minimise the risk of groundwater pollution. Where such facilities are permitted, full compliance with the prevailing regulations and standards, including the EPA's Code of Practice Wastewater Treatment and Disposal Systems Serving Single Houses (PE. ≤ 10) (EPA 2009), as may be amended, will be required;
- q) To ensure that private wastewater treatment plants, where permitted, are operated in compliance with their wastewater discharge license, in order to protect water quality;
- r) To require existing developments that are in close proximity to a public sewer to connect to that sewer, subject to a connection agreement with Irish Water;