



Arklow Local Area Plan Submission - Report

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Uisce Éireann (UÉ), welcomes the opportunity to submit observations at this Pre-Draft Stage of the Local Area Plan for the Arklow and Environs (LAP). We have provided some high-level comments below and we will continue to engage with the planning department as the LAP process progresses. We will also provide updates on Uisce Éireann plans and projects as further updates become available.

Our submission is set out as follows:

- National and Regional Policy
- Key Uisce Éireann Policies and Plans
- Water Services Infrastructure Availability
- Land Development Issues (Zoning, Serviceability, New Developments, LA Projects)

National and Regional Policy

EMRA Regional Spatial and Economic Strategy

UÉ acknowledges the planning policy and direction provided in the National Planning Framework and the East & Midlands Regional Spatial and Economic Strategy (RSES) and we are committed to supporting the policies therein, subject to budgetary and environmental constraints. In this regard, we would draw your attention to Section 10.2 of the RSES which provides general policy direction in relation to the sustainable management of water supply and wastewater needs.

UÉ Key Policies and Plans

National Water Resources Plan (NWRP)

A Regional Water Resources Plan (RWRP) has been prepared and adopted for the East & Midlands Region. The plan allows us to consider local options that could resolve needs within individual supplies and regional options that could address needs across multiple supplies.

The outcomes and benefits of this Regional Preferred Approach, if all projects identified within it are delivered, include:

- Improved performance across all of the water supplies in terms of Quality and Quantity
- Strategic transformation from the existing fragmented supply to a more resilient and sustainable interconnected supply; and
- Ability to support growth and economic development across the Eastern and Midlands Region

Further details can be found on UÉ's website here: <https://www.water.ie/projects/strategic-plans/national-water-resources/rwrp/eastern-midlands/>

Drinking Water Source Protection

UÉ has adopted the World Health Organisation (WHO) Water Safety Plan approach. Drinking Water Safety Plans (DWSPs) seek to protect human health by identifying, scoring and managing risks to water quality and quantity; taking a holistic approach from source to tap. The 'source' component of DWSPs is a key component and a priority within UÉ, as protecting and restoring the quality of raw water is an effective and sustainable means of reducing the cost of water treatment in line with Article 7(3) of the WFD.

Climate Change

UÉ is focused on addressing the impacts of climate change by adapting our assets to be resilient to climate change and mitigating our climate impact by reducing our carbon footprint. The impacts of climate change are taken into account in Uisce Éireann plans and projects for example, the National Water Resources Plan.

UÉ is preparing a strategy which will respond to global and national climate change legislative and policy frameworks for climate change action and fulfils the requirements of the Water Services Strategic Plan 2015, The Water Services Policy Statement 2018 – 2025 and most recently the Climate Change Sectoral Adaptation Plan for Water Quality and Water Services Infrastructure 2019. UÉ is happy to work with the local authority to ensure the overarching goals of mitigating, and adapting to, climate change in relation to water and wastewater are achieved.

UÉ is committed to working with public bodies and other stakeholders towards a common goal of the protection of drinking water sources. Good examples of where Uisce Éireann is working in partnership with other stakeholders to protect drinking water quality are the National Pesticides and Drinking Water Action Group (NPDWAG), as well as catchment specific NPDWAG Catchment Focus Groups. UÉ is currently involved in pilot drinking water source protection projects, which aim to trial catchment scale interventions to reduce the risk of pollution in water supplies.

River Basin Management Plans (RBMP)

UÉ supports the River Basin Management Plan (RBMP) Implementation Strategy through participation within the RBMP implementation structures and participation in Water Framework Directive initial and further characterisation activities. UÉ is a member of Water Policy Advisory Committee, National Technical Implementation Group, and Regional Operational Committees. UÉ works collaboratively with the EPA Catchment Science and Management Unit (CSMU) to facilitate the identification of significant pressures and the setting of environmental objectives. In addition, Uisce Éireann supports the Local Authority Waters Programme (LAWPRO) desktop studies and local catchment assessment work through ongoing data sharing.

The objectives and priorities of the RBMP 2018 – 2021 have been incorporated into UÉ investment plans and work programmes as appropriate, and the objectives and priorities of the third cycle RBMP (2022-2027) will be a key driver for the next investment plan.

Sustainable Drainage, Green-Blue Infrastructure and the Circular Economy

UÉ encourages the inclusion of policies and objectives on the use of Sustainable Urban Drainage Systems and Green-Blue Infrastructure in new developments including the public realm and retrofitted in existing developed areas, in line with NPO 57 of the National Planning Framework. These measures can provide a cost effective and sustainable means of managing stormwater and water pollution at source, keeping surface water out of combined sewers (thus increasing capacity for foul drainage from new developments), while providing multiple benefits for example, improved air quality, amenity and noise reduction.

UÉ would be happy to discuss potential opportunities to collaborate on projects that would remove stormwater from combined sewers. In order to maximise the capacity of existing collection systems for foul water, the discharge of additional surface water to combined (foul and surface water) sewers is not permitted. The removal of stormwater from combined sewers as part of roads, public realm, residential or other developments is strongly encouraged; this is particularly relevant to the achievement of compact growth objectives.

In addition, and to support sustainable use of the available hydraulic capacity in Combined Sewers, UÉ welcomes the inclusion in the County Development Plan of policies to promote SUDs and in particular promotion of Nature based SUDs (NbSUDs), however, we would recommend the introduction of further objectives in the LAP to promote the introduction of NbSUDs in areas contributing to combined drainage systems where streetscape enhancement programmes or resurfacing programmes are planned.

Uisce Éireann are eager to collaborate with others in leveraging circularity opportunities to support the development of a sustainable bioeconomy model and reduce greenhouse gas emissions. In developing this Plan and associated zonings, consideration should be given to circular economy opportunities. These may include as advanced treatment and re-use of WWTP effluent to meet the needs of adjacent industry, production of biogas through anaerobic digestion and re-use of water sludge.

Water Services Infrastructure Availability

Projected Population Growth

Table A of the Core Strategy Tables states the 2016 population of Arklow to be 13,226 with a housing target from 2016-2031 (less completed units 2017-2020) to be 1,056. UÉ notes that further completions would have occurred between 2020 and 2024. This means that the growth of new homes of 1,221 'between now and 2031' as set out in the pre-draft LAP is not in line with the CDP and does not account for growth that has occurred between 2016 and 2024.

Water Supply

Uisce Éireann publishes Water Supply Capacity Registers annually for each county. The latest capacity register for the county was published in June 2023 and is available at the following link:

[Water Supply Capacity Register](#)

The town of Arklow is served by the Arklow Public Supply Water Resource Zone. Based on the Target Population set out in the County Development Plan there is capacity available over the Plan period.

The remaining capacity available changes regularly and our registers are only an indication of available capacity. In all instances if someone is considering progressing a development, they should contact our Developer Services team who will provide a greater level of detail in relation to the availability of water. Further details are provided below in the 'Land Development Issues' section.

Water Network

Uisce Éireann are continually progressing leakage reduction activities, mains rehabilitation activities and lead replacement activities. These are prioritised based on leakage rates, water quality issues and ongoing disruption to Customer's supplies. We will continue to monitor the performance of the network to ensure that the most urgent works are prioritised as required.

Wastewater Treatment Capacity

Work is underway to provide a new wastewater treatment plant for Arklow and this is due to be completed in 2025. Once operational this plant will have capacity for 36,000 PE. The plant would have sufficient capacity to meet the population increase set out in the LAP. The project includes:

- A new, state of the art, wastewater treatment plant that has been designed to provide an ultimate treatment capacity for a PE (population equivalent) of up to 36,000 at the Old Wallboard Factory, North Quay, Ferrybank
- Sewer pipelines (along the North and South Quays) to bring the untreated wastewater to the treatment plant
- A marine outfall pipe to safely discharge the treated wastewater to the Irish Sea

Sewer Network

Works to the sewer network (along the North and South Quays) are approximately 90% complete, with around 1.8km of new sewer installed. The network construction works are expected to be complete by the end of Q2 2024.

The promotion of storm water separation and widespread adoption of blue-green infrastructure in the town, would take pressure off the combined sewer network, contribute to climate resilience and in addition generate capacity for compact growth.

Uisce Éireann are continually progressing sewer rehabilitation activities including a countywide sewer rehabilitation works package for Wickow which was recently completed. In addition, UÉ undertakes capital maintenance activities at pump stations, storm water overflow assessments county wide. We will continue to monitor the performance of the networks to ensure that the most urgent works are prioritised as required.

We note that the 2022 Census Settlement Population for Arklow was recorded at just over 13,000 persons. We would like to highlight that the recast Urban Wastewater Treatment Directive (UWWTD), as proposed, includes requirements for the preparation of Integrated Urban Wastewater Management Plans (IUWWMPs) for selected agglomerations greater than 10,000 persons based on risk, by 2035.

The recast UWWTD includes obligations for the reduction of pollution load from both wastewater and storm water systems (Storm Water Overflows (SWOs) and Urban Runoff respectively). If adopted, the new UWWTD will require collaboration between UÉ and Local Authorities on integrated drainage planning.

Land Development Issues

Land Use Zonings

As stated above, assessment of current capacity to serve the LAP area is based on population targets in the CDP.

Uisce Éireann are available to assist in the process of identifying suitable zoned lands from a water services perspective. Sequential development in areas with existing water services

infrastructure and spare capacity is encouraged. In assessing the infrastructure requirements to service a large area of land, it is preferable to have an overall development masterplan including phases of development and timelines so that an overall strategic water services plan for the lands can be developed.

Available network information indicates network extensions may be required to service newly zoned sites. Depending on the extent of development realised, localised network upgrades may also be required, particularly in areas served by 150mm diameter sewers or watermains with a diameter of 80mm or less. Arklow is well served with a water supply network with the majority of the network made up of supply pipes 100mm or greater. However, some sections of pipework with a smaller diameter may require upgrades in order to support growth.

From a review of UÉ GIS data it appears that the main roads within Arklow are served by UÉ foul or combined sewers but many of the housing estates are served by estate sewerage systems. Third-party agreement may be required where it is proposed to service a new development via private property or private water services infrastructure. Where development sites are not serviced by existing infrastructure, the feasibility of extending the public network to the unserved sites would be assessed via our Pre-Connections Enquiry process. Where network reinforcements such as upgrades or extensions are required, these shall be developer driven unless there are committed Uisce Éireann projects in place to progress such works.

In settlements where the Wastewater Treatment Plant (WWTP) is close to lands with potential for the development of sensitive receptors e.g., dwellings, any future development of these lands should take account of the established use of the existing WWTP and the potential for extensions/intensification of use of the WWTP in the future.

Regarding zoning and development in lands with no public water services infrastructure, as outlined in Draft Water Services Guidelines for Planning Authorities (January 2018), Section 5.3:

“It is the policy of Irish Water to facilitate connections to existing infrastructure, where capacity exists, in order to maximise the use of existing infrastructure and reduce additional investment costs. There is a general presumption that development will be focused into areas that are serviced by public water supply and wastewater collection networks. Alternative solutions such as private wells or wastewater treatment plants should not generally be considered by planning authorities. Irish Water will not retrospectively take over responsibility for developer provided treatment facilities or associated networks, unless agreed in advance”.

Serviceability of Settlements

Uisce Éireann engaged with the Department of Housing, Local Government and Heritage (DHLGH) providing a desktop-based assessment of the GIS mapping information relating to the proximity of zoned lands to our water and wastewater networks. The mapping was developed during 2022 to act as a decision support tool for local authorities making their determinations for the Residential Zoned Land Tax. Uisce Éireann would urge the planning authority to refer to this mapping, in tandem with the notes issued by the DHLGH to assist in identifying suitable zoned lands.

The accuracy of the GIS network has not been verified in some instances. The assessment considered all zoned lands greater than 500m from an Uisce Éireann network to be of Red status on the RAG mapping.

Notes for New Developments

All new residential and commercial/industrial developments wishing to connect to an Uisce Éireann network are to be assessed through Uisce Éireann’s Connections and Developer Service process which will determine the exact requirements in relation to network and treatment capacity. Connections to Uisce Éireann networks are subject to our Connections

Charging Policy. Further information on this process is available at: <https://www.water.ie/connections/developer-services/>

Spatial Extent of Networks - The spatial extent of Uisce Éireann's networks is accessible through Uisce Éireann's ArcGIS Online web viewer at: <https://irishwater.maps.arcgis.com/home/index.html>, which provides information on the position of its underground network as a general guide only, on the strict understanding that it is based on the best available information.

Where Uisce Éireann assets are within a proposed development site, these assets must be protected or diverted. If there is a possibility that Uisce Éireann assets will need to be altered or diverted because of a proposed development, a diversion agreement may be required. Further information on this process is available at: <https://www.water.ie/connections/developer-services/diversions/>

Development in the vicinity of Uisce Éireann assets must be in accordance with Uisce Éireann's standard details and codes of practice.

Planned Road and Public Realm Projects

Planned public realm and road projects have the potential to impact on Uisce Éireann assets and projects e.g., tree planting, building over of assets, new connections, requirement to programme upgrade works in advance of road projects. Early engagement in relation to planned road and public realm projects is requested to ensure public water services are protected, enable Uisce Éireann to plan works accordingly and ultimately minimise disruption to the public.

If you require any further information or assistance in respect of this submission or in respect of the availability of capacity in our infrastructure to support the plan making process, please do not hesitate to contact us.

Yours faithfully,

Niamh McDonald

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Asset Strategy

Forward Planning - East and Midlands Region