

## Appendix D Transboundary Assessment Matrices

Table D.1 Strategic Objective 1: Potential for Transboundary effects

Strategic Objective 1: Safe and Reliable Drinking Water			
Strategic Aims (Priorities)	Action	Potential for Transboundary Effects	Mitigation at this plan level*
<b>1: Ensuring safe drinking water:</b> We will manage the safety and quality of drinking water from source to tap to protect human health.	<b>Action 1.1:</b> Undertake risk assessments across our supplies and implement appropriate measures to manage risk.	Potential for <b>positive effects</b> dependent on actions being taken within joint catchment areas	None required
	<b>Action 1.2:</b> Conform with the Drinking Water Directive and other legislative requirements relating to drinking water quality.	Potential for <b>positive effects</b> dependent on actions being taken within joint catchment areas	None required
	<b>Action 1.3:</b> Coordinate catchment management measures and champion nature-based solutions for improving source water quality.	Potential for <b>positive effects</b> dependent on actions being taken within joint catchment areas	None required
<b>2: Delivering Reliable water supplies:</b> We will improve our assets and sources to ensure our supplies are robust enough to meet our customers' needs at the target level of service	<b>Action 1.4:</b> Implement and continue to review our National Water Resources Plan, delivering improvements in water supply infrastructure to ensure resilient supplies into the future.	Potential for <b>positive or negative effects</b> dependent on type of actions being taken within joint catchment areas or in proximity of the Northern Ireland Border.	None required Mitigation measures already identified in NWRP and reassessment will be part of review and update
	<b>Action 1.5:</b> Develop contingency plans to improve reliability of our water supplies.	Potential for <b>positive or negative effects</b> dependent on type of actions being taken within joint catchment areas	Consider and assesses environmental effects including transboundary effects
	<b>Action 1.6:</b> Improve operational resilience through preventative measures and developing and implementing improved incident response processes.	Potential for <b>positive effects</b> dependent on actions being taken within joint catchment areas	None required
<b>3: Conserving our precious resources:</b> We will	<b>Action 1.7:</b> Use less water through promoting water conservation to help	Potential for <b>positive effects</b> dependent on reduced demand for abstraction from sources within joint catchment areas	None required

Strategic Objective 1: Safe and Reliable Drinking Water			
Strategic Aims (Priorities)	Action	Potential for Transboundary Effects	Mitigation at this plan level*
take pressure off our resources through leakage reduction and helping our customers to conserve water.	customers reduce their use.		
	<b>Action 1.8:</b> Use less water through developing and implementing an enhanced Water Stewardship Programme.	Potential for <b>positive effects</b> dependent on reduced demand for abstraction from source within joint catchment areas	None required
	<b>Action 1.9:</b> Lose less water through delivering leakage reduction.	Potential for <b>positive effects</b> dependent on reduced demand for abstraction from source within joint catchment areas.	None required

**Table D.2 Strategic Objective 2: Potential for Transboundary effects**

<b>Strategic Objective 2: Support our Customers, Communities and the Economy</b>			
<b>Strategic Aims</b>	<b>Action</b>	<b>Potential Transboundary Effects</b>	<b>Mitigation</b>
<b>4: Delivering for customers:</b> We will put our customers at the heart of what we do and deliver on their needs.	<b>Action 2.1:</b> Understand customer needs and expectations.	No potential transboundary effects identified	None required
	<b>Action 2.2:</b> Enhance customer communications to address our customer expectations and provide real-time information to customers on usage, incidents, and water quality.	No potential transboundary effects identified	None required.
	<b>Action 2.3:</b> Support our customers to play their part in protecting water as a precious resource and enabling better water services.	No potential transboundary effects identified	None required. Linked to Action 1.7 and 2.4
<b>5: Engaging with communities:</b> We will engage with communities at a local level to realise the value from our shared water resources.	<b>Action 2.4:</b> Develop a community education and engagement programme to raise awareness on the value of water and the water services we provide.	No potential transboundary effects identified	None required. Linked to Action 1.7 and 2.3
	<b>Action 2.5:</b> Continue to develop amenity value in our assets with local communities, where safe and appropriate.	Potential for <b>positive or negative effects</b> dependent on type of actions being taken within joint catchment areas	As part of assessment of suitability for amenity use, consider environmental and social impacts including European sites, biodiversity, transboundary effects, cultural heritage and landscape impacts
<b>6: Providing for growth:</b> We will manage the availability of capacity to support social and economic growth in line with national policy.	<b>Action 2.6:</b> Engage and collaborate with key stakeholders to support national, regional and local planning policy.	No potential transboundary effects identified - lower tier plans will need to consider potential for transboundary effects	None identified
	<b>Action 2.7:</b> Engage with housing and industry stakeholders to support delivery of new homes and economic growth.	No potential transboundary effects identified - lower tier plans will need to consider potential for transboundary effects	None identified
	<b>Action 2.8:</b> Develop and embed demand analysis capability to inform, forecast and plan for future investment requirements.	No potential transboundary effects identified - lower tier plans using demand analysis information will need to consider potential for transboundary effects.	None required.

**Table D.3 Strategic Objective 3: Potential for Transboundary effects**

<b>Strategic Objective 3: Protect and Restore our Environment</b>			
<b>Strategic Aims (Priorities)</b>	<b>Action</b>	<b>Potential Transboundary effects</b>	<b>Mitigation</b>
<p><b>7: Protecting our water environment:</b> We will play our part in protecting and restoring our water environment.</p>	<p><b>Action 3.1:</b> Work with regulators and stakeholders to develop a Wastewater Strategy Framework.</p>	<p>Potential for <b>positive or negative effects</b> dependent on type of actions being taken within joint catchment areas, discharges to shared transitional or coastal water bodies or proximity to the Northern Ireland border.</p> <p>SEA and AA for the National Wastewater framework will identify potential effects.</p>	<p>SEA and AA for the Wastewater framework will identify transboundary effects and any mitigation measures.</p> <p>Ensure opportunities to enhance shared water bodies and connected habitats are considered as part of the SEA/AA process.</p>
	<p><b>Action 3.2:</b> Develop and implement Integrated Urban Wastewater Management Plans.</p>	<p>Potential for <b>positive or negative effects</b> dependent on type of actions being taken within joint catchment areas, discharges to shared transitional or coastal water bodies or proximity to the Northern Ireland border.</p> <p>Integrated Urban Wastewater Management Plans will be screened for potential transboundary effects.</p>	<p>SEA and AA for the urban wastewater Management Plans will identify transboundary effects and any mitigation measures.</p> <p>Ensure opportunities to enhance shared water bodies and connected habitats are considered as part of the SEA/AA process</p>
	<p><b>Action 3.3:</b> Ensure sustainable abstractions and manage water treatment residuals.</p>	<p>Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas</p> <p>The NWRP and WTP residual strategy have already been subject to SEA and AA</p>	<p>The NWRP and WTP residuals strategy have already been subject to SEA and AA which included mitigation measures</p>
<p><b>8: Delivering on the WFD:</b> We will work with others to progressively deliver on the WFD objectives.</p>	<p><b>Action 3.4:</b> Protect and restore water bodies through collaboration.</p>	<p>Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas and waterbodies</p>	<p>None required.</p>

Strategic Objective 3: Protect and Restore our Environment			
Strategic Aims (Priorities)	Action	Potential Transboundary effects	Mitigation
	<b>Action 3.5:</b> Manage wastewater services throughout the asset lifecycle to achieve regulatory requirements.	Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas and water bodies	None required.
	<b>Action 3.6:</b> Manage water services throughout the asset lifecycle to achieve regulatory requirements.	Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas and water bodies	None required.
<b>9: Contributing to positive biodiversity:</b> We will manage our assets to have biodiversity net gain.	<b>Action 3.7:</b> Manage our assets to have biodiversity 'net gain'.	Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas and water bodies and connected areas of biodiversity value.	None required.
	<b>Action 3.8:</b> Champion nature-based solutions and catchment measures in the delivery of water and wastewater projects.	Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas and water bodies.	None required.

Table D.4 Strategic Objective 4: Potential for Transboundary effects

Strategic Objective 4: Sustainable Services Fit for the Future			
Strategic Aims (Priorities)	Action	Potential Transboundary effect	Mitigation at this plan level*
<b>10: Achieving net zero carbon:</b> We will progressively work towards achieving net zero carbon services.	<b>Action 4.1:</b> Develop and implement a Net Zero Road Map.	Potential for <b>positive effects</b> dependent on type of actions being taken within joint catchment areas and water bodies	None required
	<b>Action 4.2:</b> Work with our supply chain to embed sustainability in the delivery of water and wastewater infrastructure.	No potential transboundary effects identified	None required.
<b>11: Adopting circular approaches:</b> We manage our assets to maximise resource recovery and resource efficiency and minimise waste.	<b>Action 4.3:</b> Review and implement the National Wastewater Sludge Management Plan.	Potential for <b>positive or negative effects</b> dependent on type of actions being taken within joint catchment areas discharges to shared transitional or coastal water bodies or proximity to the Northern Ireland border.  NWSMP review and update will be subject to SEA & AA identifying investment and location specific impacts.	None required.  NWSMP review and update will identify any mitigation measures required
	<b>Action 4.4:</b> Maximise circular economy benefits.	No potential transboundary effects identified	None required
<b>12: Managing our assets:</b> We will manage the risk and resilience of our services through best practice asset management.	<b>Action 4.5:</b> Manage activities on our assets in a coordinated manner across their full lifecycle, with the aim of achieving ISO 55000 certification.	No potential transboundary effects identified	None required
	<b>Action 4.6:</b> Ensure risk and value-based decision making across the lifecycle of assets.	No potential transboundary effects identified	None required
<b>13: Gaining value from innovation:</b> We will drive research and innovation to deliver	<b>Action 4.7:</b> Develop a culture of innovation in the water services sector to enable a sustainable future.	No potential transboundary effects identified	Potential to identify areas for additional collaboration and research

<b>Strategic Objective 4: Sustainable Services Fit for the Future</b>			
<b>Strategic Aims (Priorities)</b>	<b>Action</b>	<b>Potential Transboundary effect</b>	<b>Mitigation at this plan level*</b>
value and meet future challenges.	<b>Action 4.8:</b> Continue to develop foresight and horizon scanning capability.	No potential transboundary effects identified	None identified
<b>14: Securing long-term funding:</b> We will work with our stakeholders to secure long-term funding for efficient and resilient services.	<b>Action 4.9:</b> Quantify and articulate long-term investment needs for our water and wastewater assets.	No potential transboundary effects identified	None identified
	<b>Action 4.10:</b> Secure multi-annual funding approach.	No potential transboundary effects identified	None identified