

CASE STUDY



**McBreen
Enviro UK**



Project Scope:

- Comprehensive man-entry inspection of a culvert within a vital flood storage basin. This work forms part of an ongoing annual maintenance programme to ensure the long-term functionality of this critical flood defence system.

Challenges:

- The culvert plays an integral role in a flood mitigation scheme designed to protect the local community from flooding along the River Yarrow.
- A 600m earth embankment engineered to withstand extreme weather events.
- A flood storage basin capable of holding up to 1.3 million cubic metres of water, the equivalent of 520 Olympic-sized swimming pools.

SAFEGUARDING COMMUNITIES WITH MAN- ENTRY CULVERT INSPECTIONS



RIVER YARROW

The flood defence system plays a vital role in protecting approximately 420 homes and businesses in the surrounding area. However, over time, natural debris and sediment can accumulate within the culvert, significantly compromising its efficiency.

Regular maintenance and inspections are essential to keep the culvert clear of obstructions and structurally sound, ensuring the continued safety and wellbeing of the local community.

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Solutions

To address these challenges, McBreen Enviro UK deployed a skilled team of professionals to undertake a series of meticulous tasks:

- **Man-entry inspection:** Technicians conducted a hands-on examination of the culvert's interior, checking for structural issues, signs of wear, or any potential weaknesses that could lead to failure.
- **Debris removal:** The team carefully cleared natural buildup, vegetation, and other obstructions, ensuring optimal water flow through the culvert.

This detailed approach not only guarantees the culvert's current functionality but also extends its lifespan, reinforcing the wider flood defence system.

By maintaining this critical infrastructure, McBreen Enviro UK supports the ongoing protection of the community and its assets.

Results

Through thorough inspection and maintenance, McBreen Enviro UK has ensured that the flood storage basin remains fully operational, ready to handle significant volumes of water during adverse weather conditions. This proactive approach mitigates flood risks and provides peace of mind to the hundreds of residents and businesses that rely on the basin for protection.

