

Smart stormwater ponds

Advanced technology that prepares for storms and protects our community.



Smart & Connected

Sensors and weather forecasts monitor conditions in real time.



Prepares Before the Storm

The system releases water in advance to create space for rain.



Captures During the Storm

Runoff is stored, reducing street flooding and overwhelmed drains.



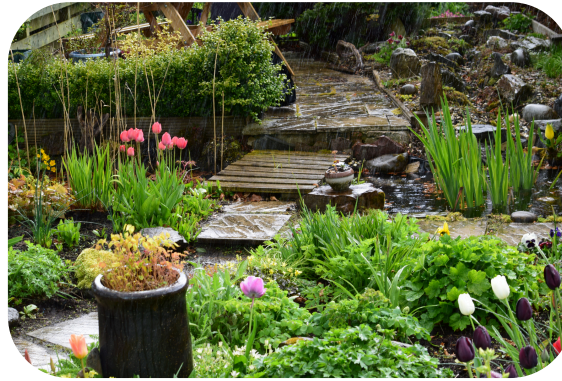
Releases Slowly & Safely

Stored water is released at a controlled rate, protecting downstream creeks.

Think of it as a smart sponge.

Smarter ponds. Safer streets.
Cleaner streams.

Green infrastructure



Green infrastructure works with natural processes rather than against them. Instead of rushing runoff into pipes and pushing it downstream, it slows water down, filters it, and allows it to soak back into the ground close to where it fell.

Features like bioretention gardens, vegetated swales, permeable pavement, and constructed wetlands can be woven into neighborhoods to manage runoff at the source.



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Clean Water Starts Here

A community guide to stormwater & protecting Bluefield's waterways



Stormwater & our community

Well-designed, maintained stormwater systems make neighborhoods safer, protect streams, and enhance public spaces.

Poor runoff management causes flooding, erodes stream banks, and carries pollutants - like oil, pet waste, chemicals, and litter - straight into waterways.

The good news: smart infrastructure and green design can greatly improve stormwater management. **Bluefield is doing just that.**

Stormwater management tools

There's a variety of ways we handle stormwater across town:

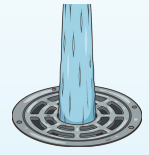
- ✓ Smart stormwater ponds
- ✓ Bioretention gardens
- ✓ Vegetated swales
- ✓ Permeable pavement
- ✓ Upgraded storm pipes & channels
- ✓ Stream buffers & riparian plantings

How you can help Bluefield

Stormwater infrastructure works best when the whole community is invested. **Every resident plays a role in keeping Bluefield's waterways clean.**



Trash that reaches storm drains travels directly to local creeks. A quick pick up near a drain or ditch protects the waterways we all share.



Storm drains flow straight to local streams - not the treatment plant. Never pour motor oil, paint, or chemicals into street drains.



Pet waste washes into waterways during rain, introducing bacteria that harm aquatic life and water quality.



Healthy lawns and trees absorb rainfall where it falls, naturally reducing runoff that enters drainage systems.

Why it matters in our community



Bluefield has been making meaningful investments in stormwater infrastructure - improving the way runoff is captured, slowed, and treated to protect neighborhoods and waterways for generations to come.

Every time it rains, water flows across rooftops, parking lots, streets, and yards before making its way into storm drains and eventually into our local creeks and streams.

Smart stormwater management delivers real, lasting benefits

- ✓ Reduced neighborhood flooding
- ✓ Cleaner local waterways
- ✓ Healthier aquatic ecosystems
- ✓ Improved community green space
- ✓ Less litter reaching our creeks
- ✓ Long-term infrastructure resilience