

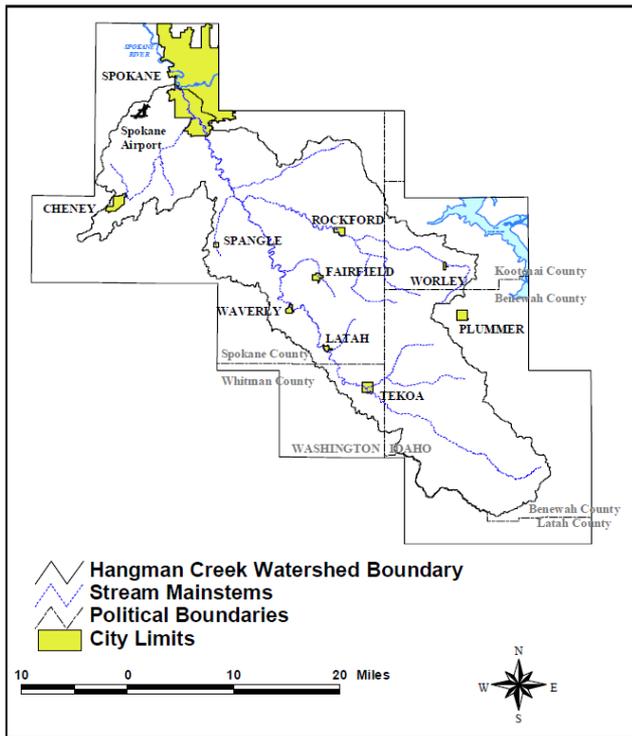
Hangman Creek agreement

Ecology and Spokane Riverkeeper



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Watershed overview



- Major tributary to Spokane River
- Nearly 80% dryland agriculture
- Six permitted wastewater facilities



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Water quality problems

Pollution problems include:

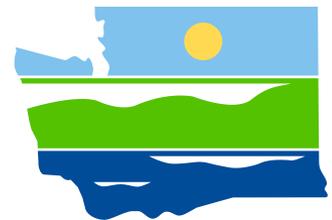
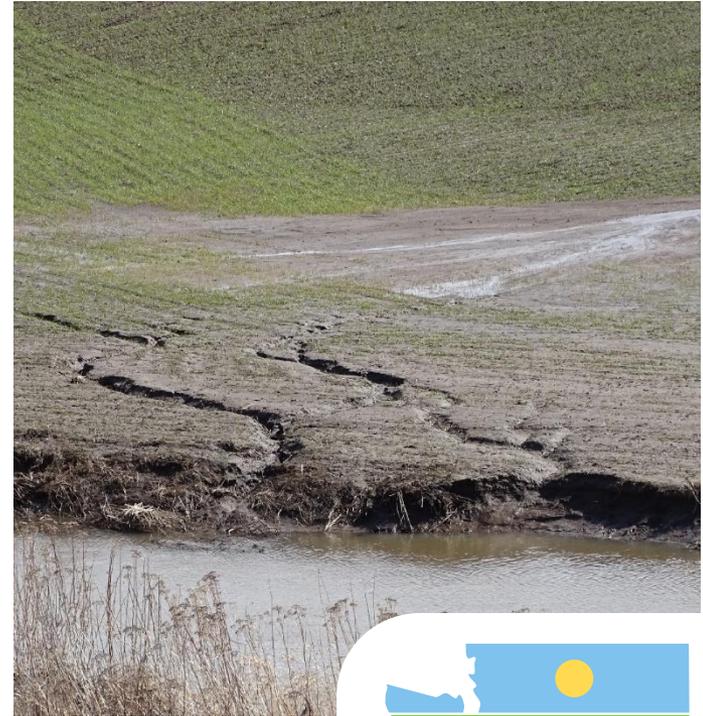
- High temperature, nutrients, bacteria, and pH
- Low dissolved oxygen
- Too much sediment in the water column (turbidity)



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The agreement

- Complete a full analysis of the creek's health including streamside vegetation and in-stream conditions.
- Identify, prioritize, and fix pollution sources.
- Track progress of on-the-ground improvements.
- Develop an education and outreach program.
- Monitor the creek's health.
- Annual reporting and complete re-assessment of creek's health to measure progress.



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On-the-ground



Assessment

- Analyze and map riparian conditions
- Bio-assessment
- Inventory pollution sources



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On-the-ground

Annual watershed evaluation

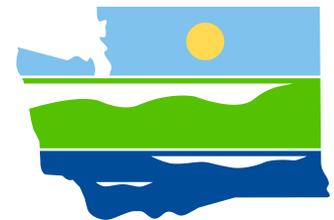
- Up to 10 tillage sites contacted
- Up to 10 livestock sites contacted



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Key benchmarks

- **February 2019** – Develop education & outreach program
- **June 2019** – Complete baseline riparian assessment
- **2028** – Re-assess riparian health
- Annual watershed evaluations and technical & financial assistance provided to landowners
- Annual progress reporting to Riverkeeper



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Questions and Discussion



Turbidity (NTU)

Water Samples:

