

# 2021 Coastal Management Grant

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Kewaunee County

# Acknowledgements

## Funded by:

- Wisconsin Coastal Management Program and the National Oceanic and Atmospheric Administration, Office for Coastal Management under the Coastal Zone Management Act, Grant # AD219129-022.23
- Peninsula Pride Farms

## Other partners include:

- Kewaunee County Land & Water Conservation Department
- Groundwater Guardians
- University of Wisconsin – Stevens Point Water Environmental Analysis lab



## Focus Areas

1. Silurian Dolomite (less than 20 feet to bedrock)
2. New Testers
3. Village of Casco
4. Entire County

# Overview 2021

July: 298 Tests

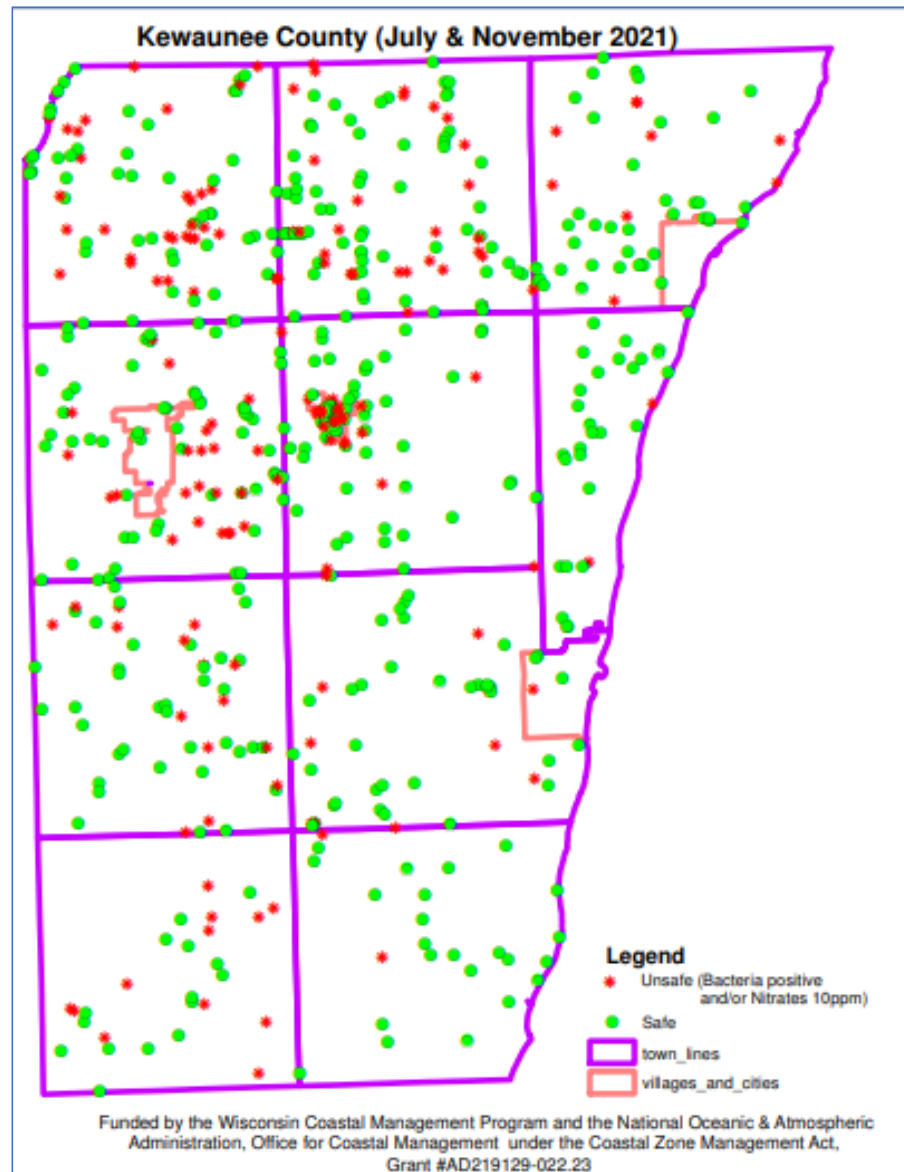
November: 296 Tests

~40% new testers

- If a landowner tested in July, they were not eligible for November.
- 6 picked up bottles and never returned them

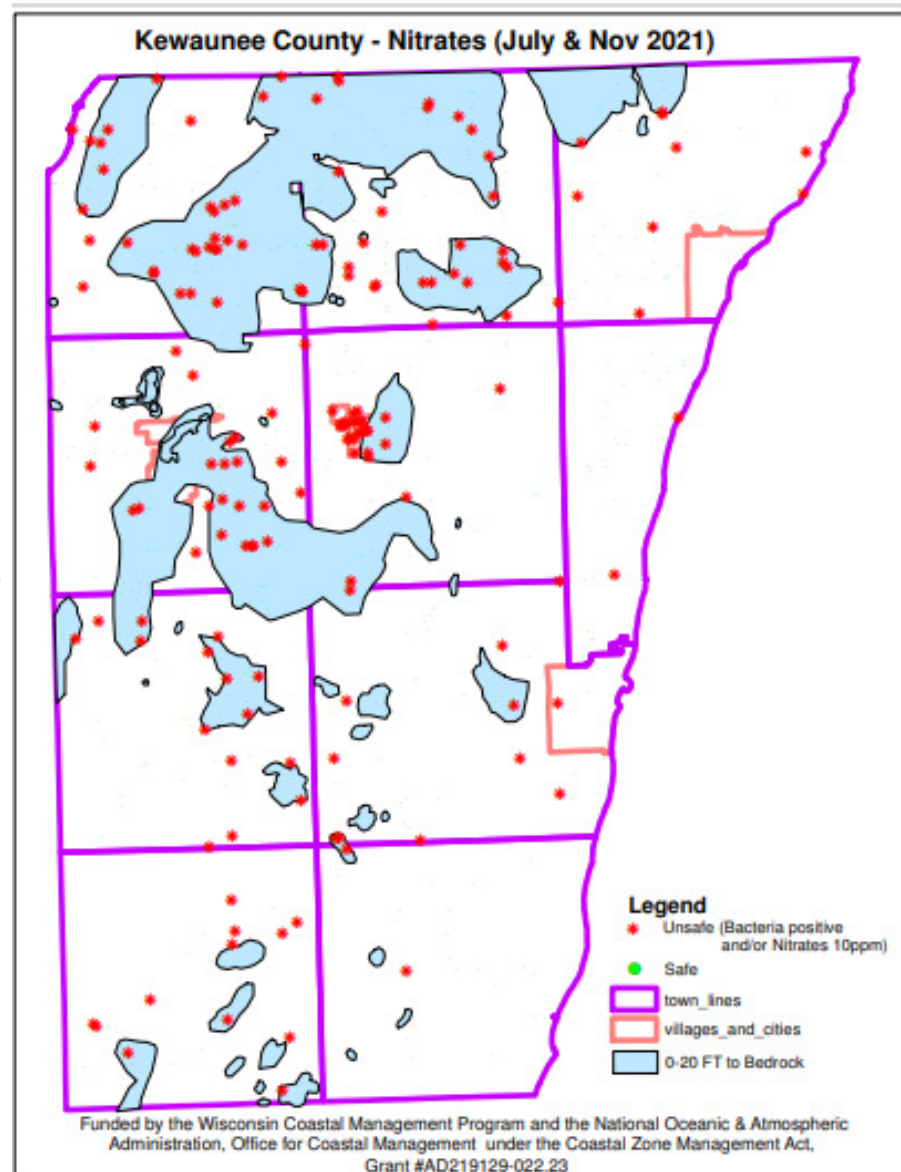
Red – Unsafe  
(Bacteria &/or  
Nitrates)

Green - Safe

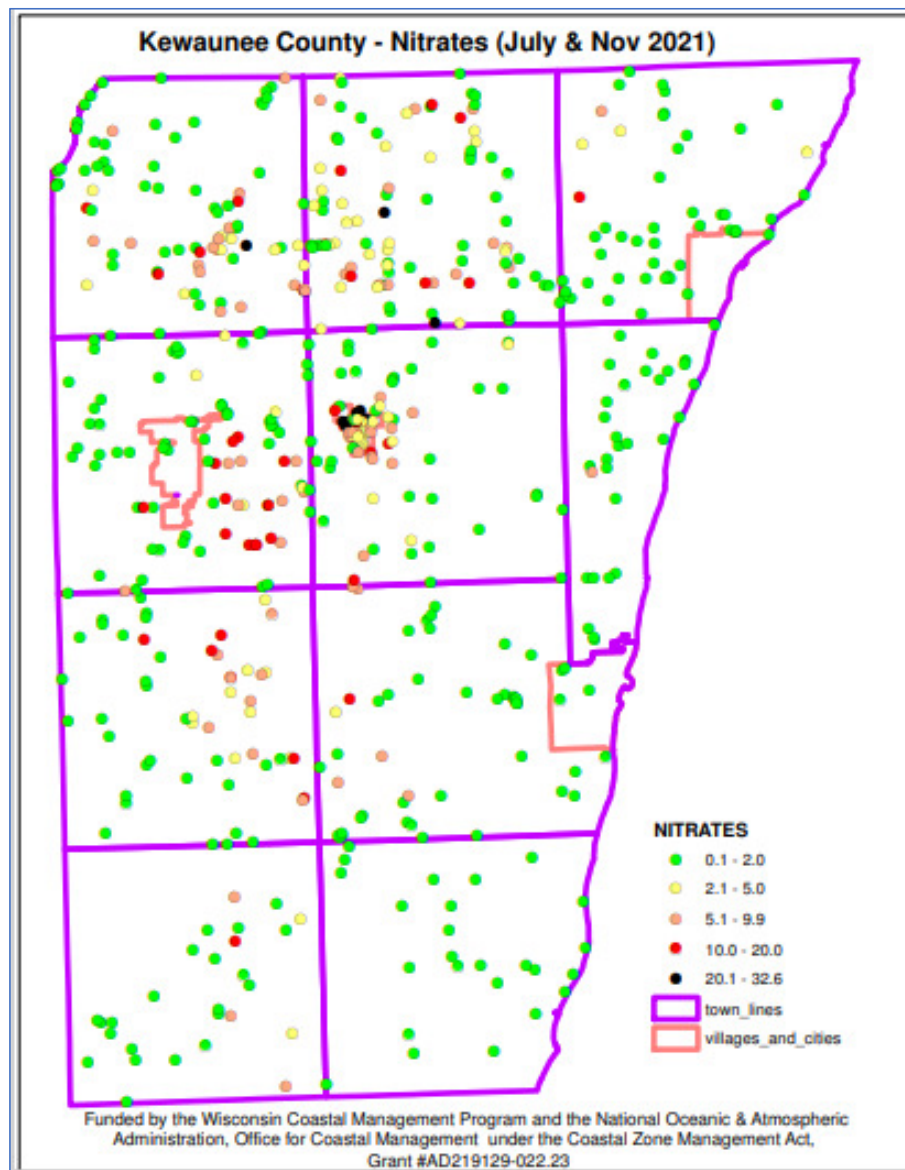


Add Silurian Layer

with  
Red – Unsafe  
(Bacteria and/or  
Nitrates)

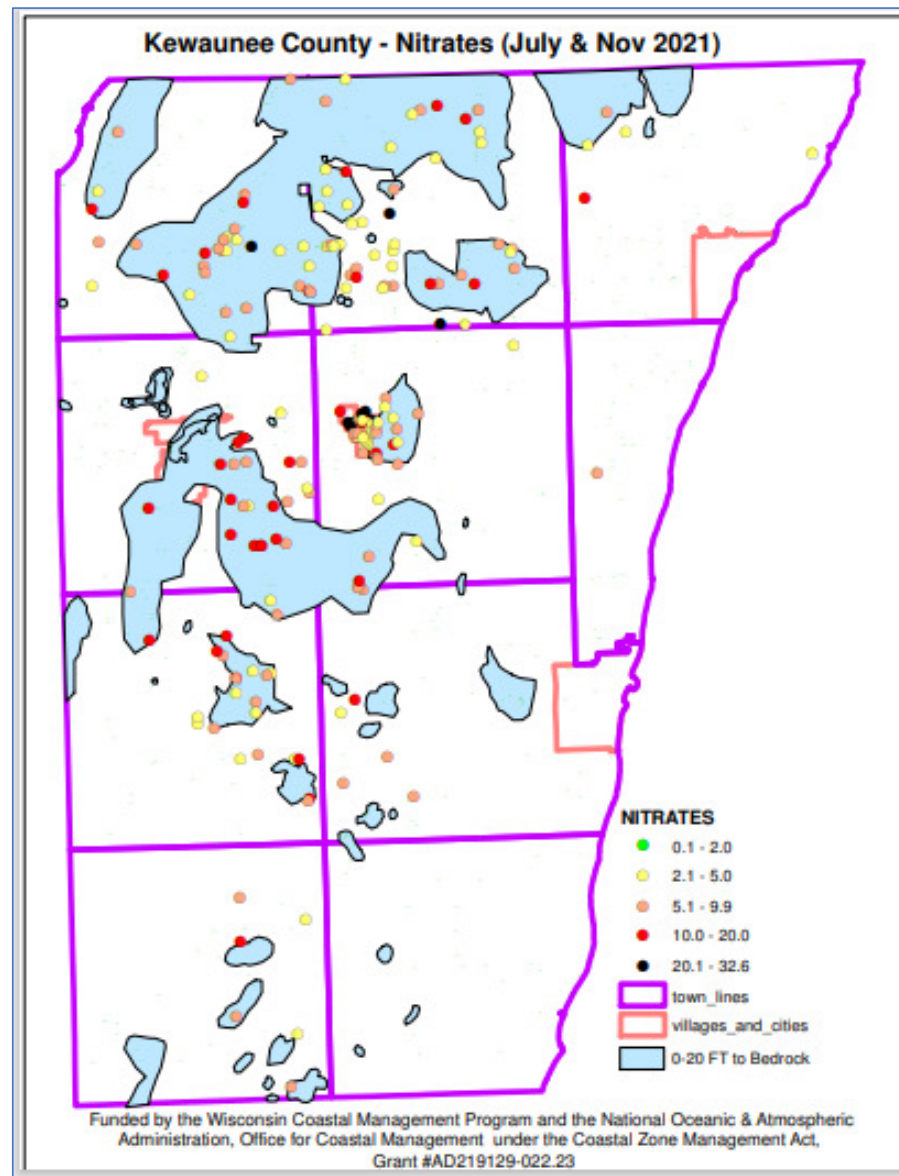


# Nitrates



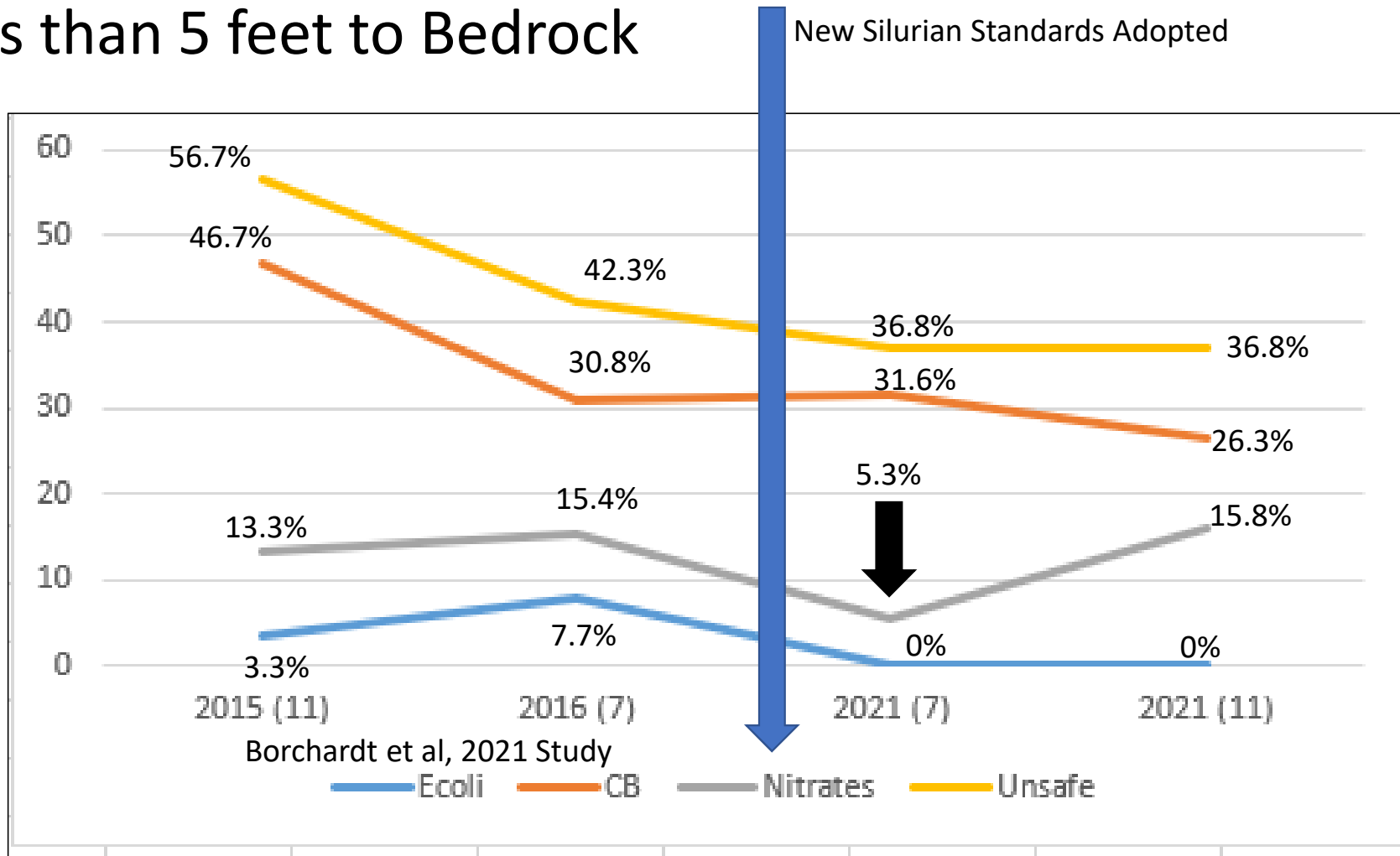
Silurian Layer

Nitrates > 2.0



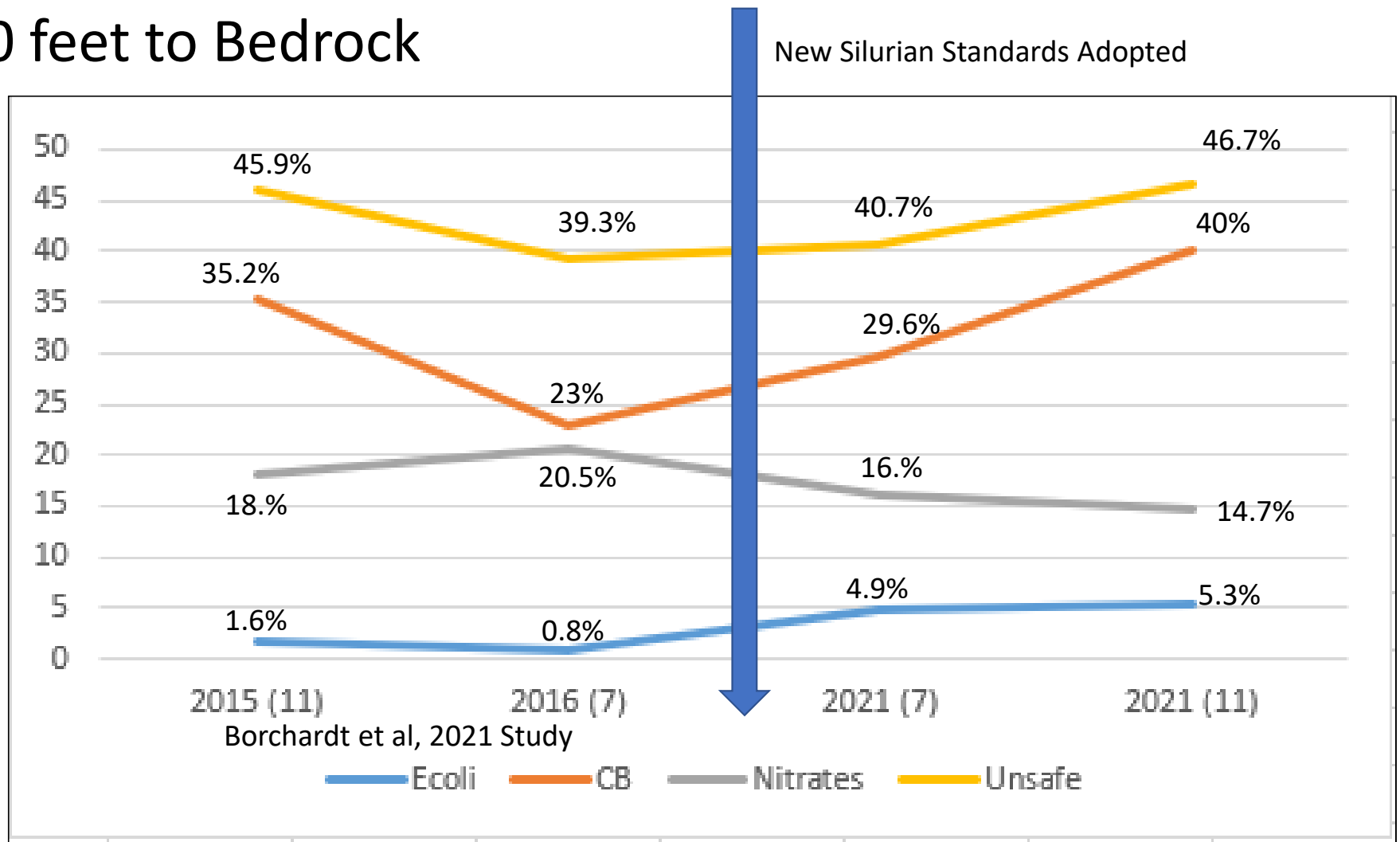


# Less than 5 feet to Bedrock



*\*\*Contamination Rates (percent) as unadjusted for depth to bedrock; compared to the unadjusted rates of Borchardt et al (2021)*

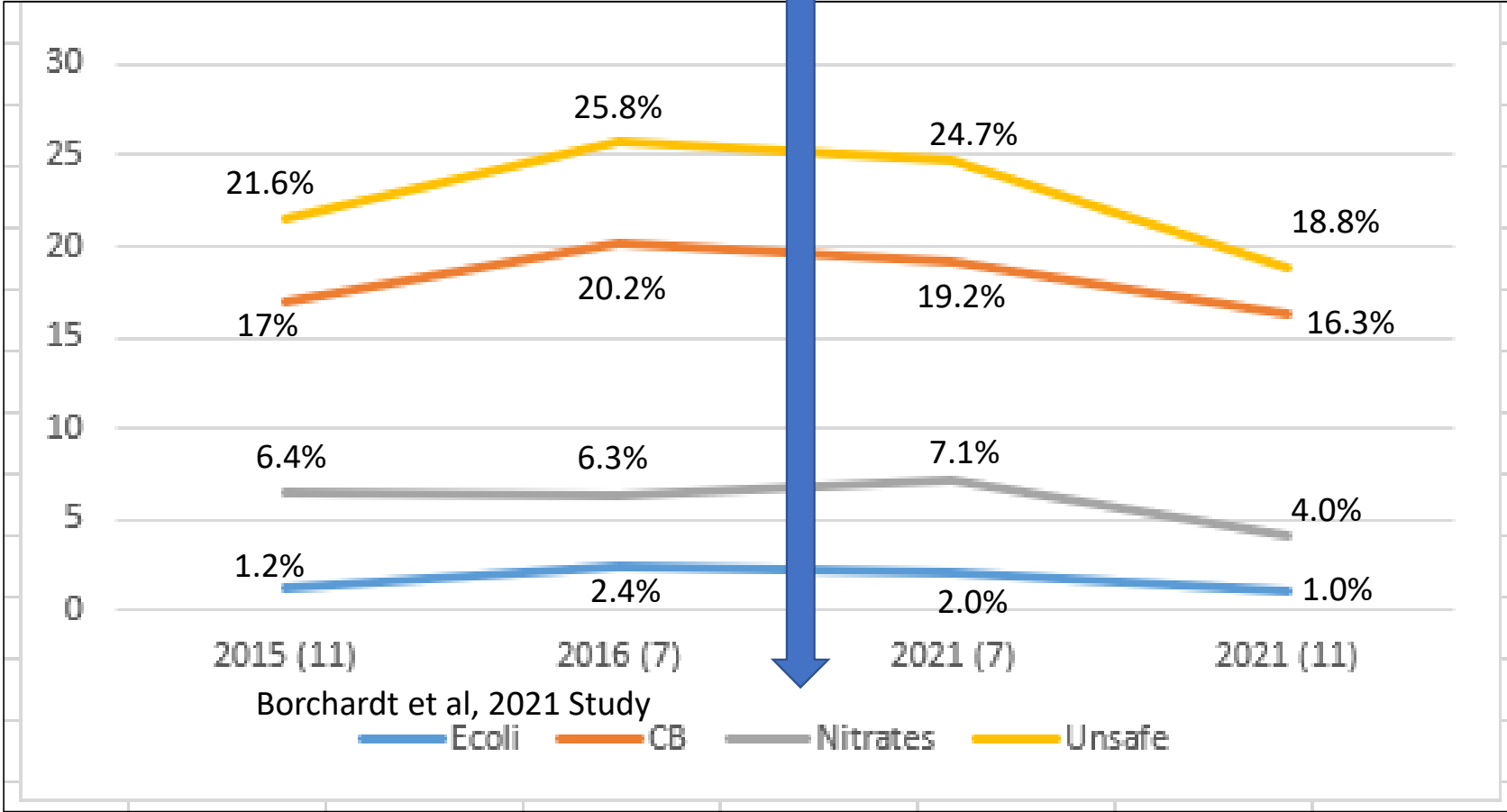
# 5 to 20 feet to Bedrock



**\*\*Contamination Rates (percent) as unadjusted for depth to bedrock; compared to the unadjusted rates of Borchardt et al (2021)**

# Greater than 20 feet to Bedrock

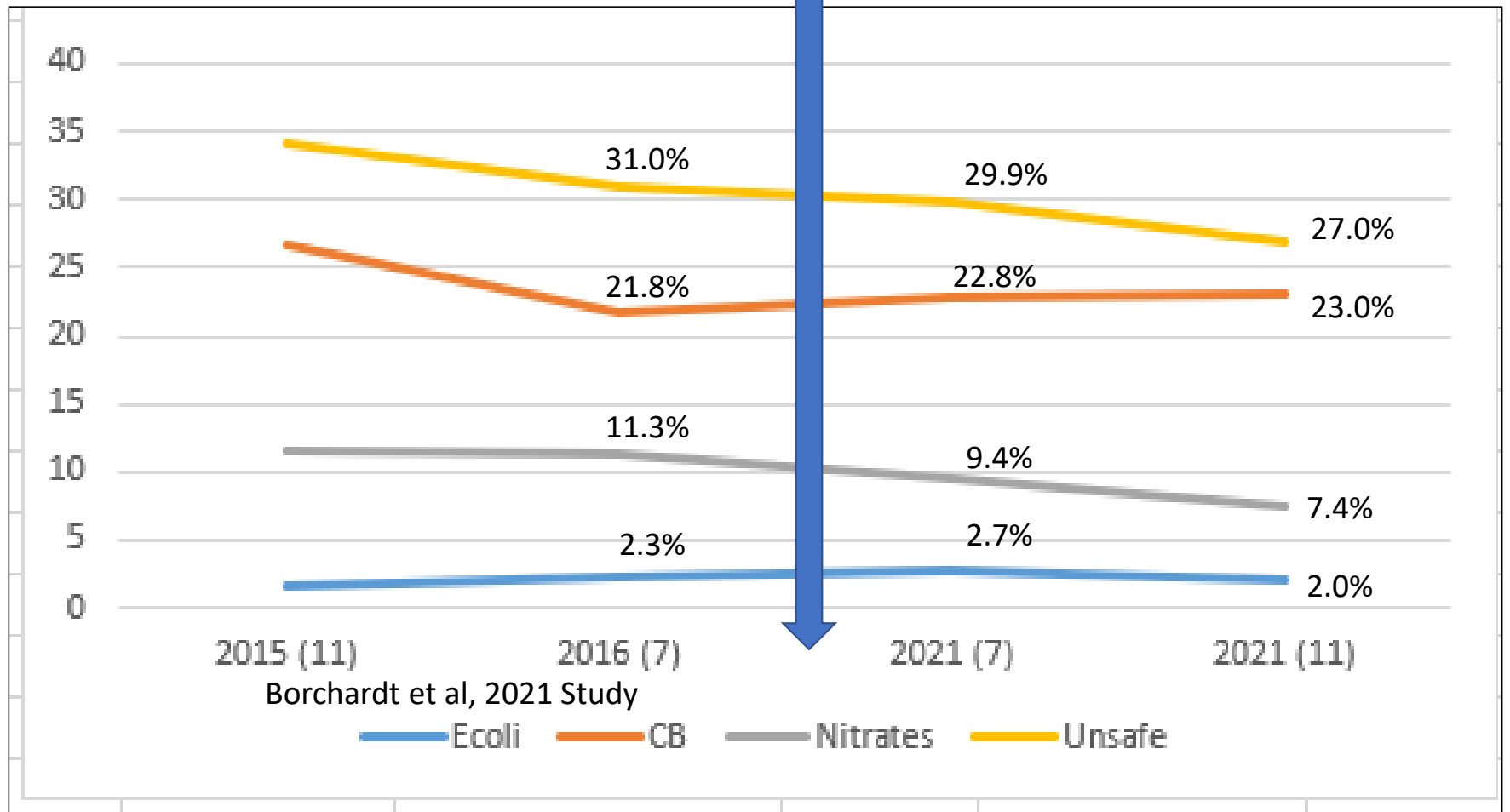
New Silurian Standards Adopted



\*\*Contamination Rates (percent) as unadjusted for depth to bedrock; compared to the unadjusted rates of Borchardt et al (2021)

# Kewaunee County

New Silurian Standards Adopted



\*\*Contamination Rates (percent) as unadjusted for depth to bedrock; compared to the unadjusted rates of Borchardt et al (2021)

## Village of Casco

59 total wells tested (July & Nov)

- 13 wells > 10 ppm (22%)
  - 8 of the 13 > 20 ppm (13.6%)
- 38 wells were between 2.0 -9.9 ppm (64%)

# Key Points

- We are making progress!!!!
- Continue our focus on 0-20 feet to bedrock (Silurian Bedrock)
- Applied for 2022 grant – will know in March if we are awarded – another 600 wells.