

KCWP
WATER QUALITY RESULTS
2021

REVIEW

- Data collection started in 1997 (approximately)
- Washington State Department of Ecology issued a Total Maximum Daily Load (TMDL/Water cleanup plan) for sediments in 1999—latest check was 2019
- Targets were established that to determine/demonstrate progress
- KCWP studies proved bi-weekly sampling wasn't sufficient to monitor local water quality
- Weekly sampling has been ongoing
- Other datasets include temperature, flows, etc.



Upper Yakima River Basin Suspended Sediment and Organochlorine Pesticides TMDL

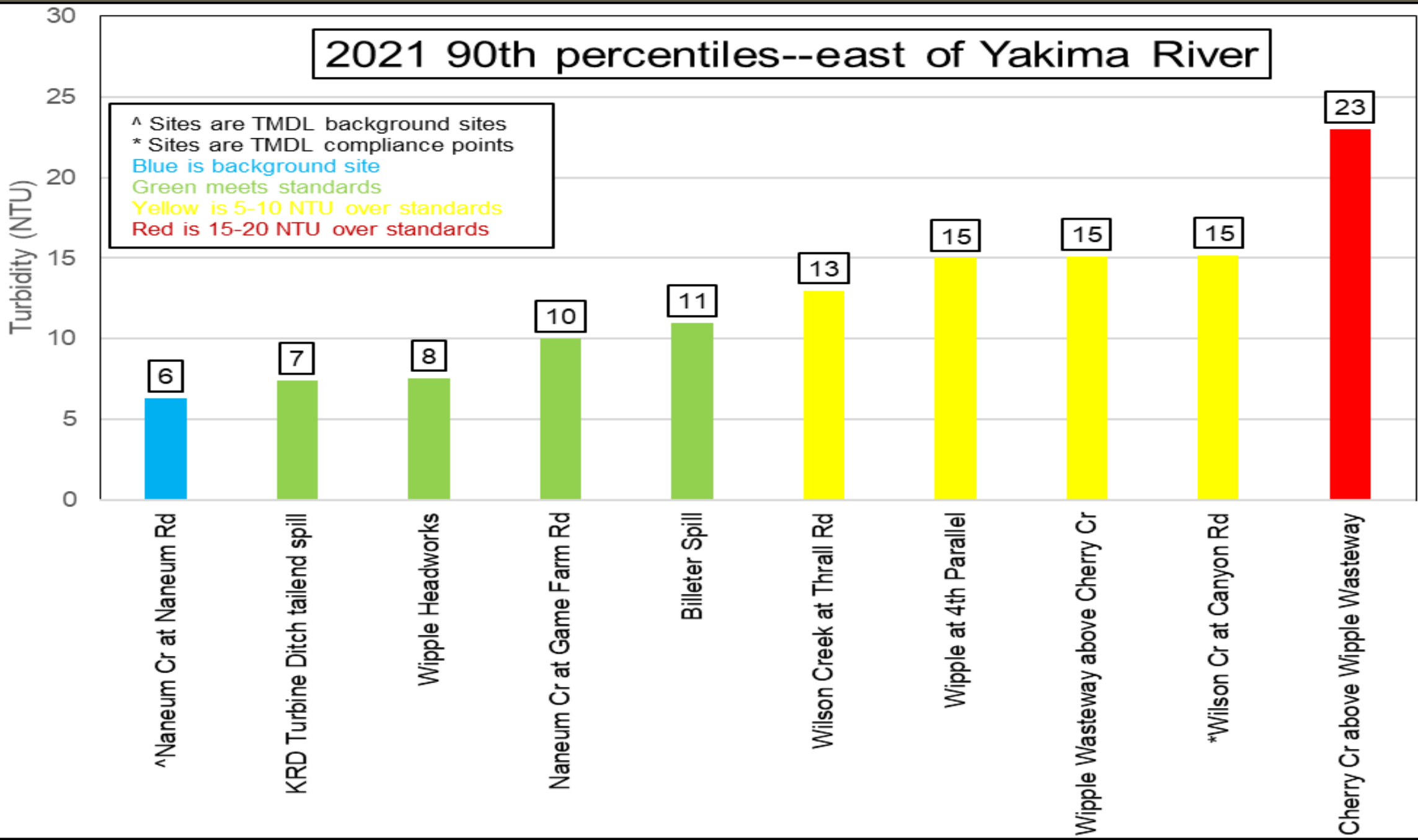
2019 Effectiveness Monitoring for
TSS and Turbidity TMDL Targets



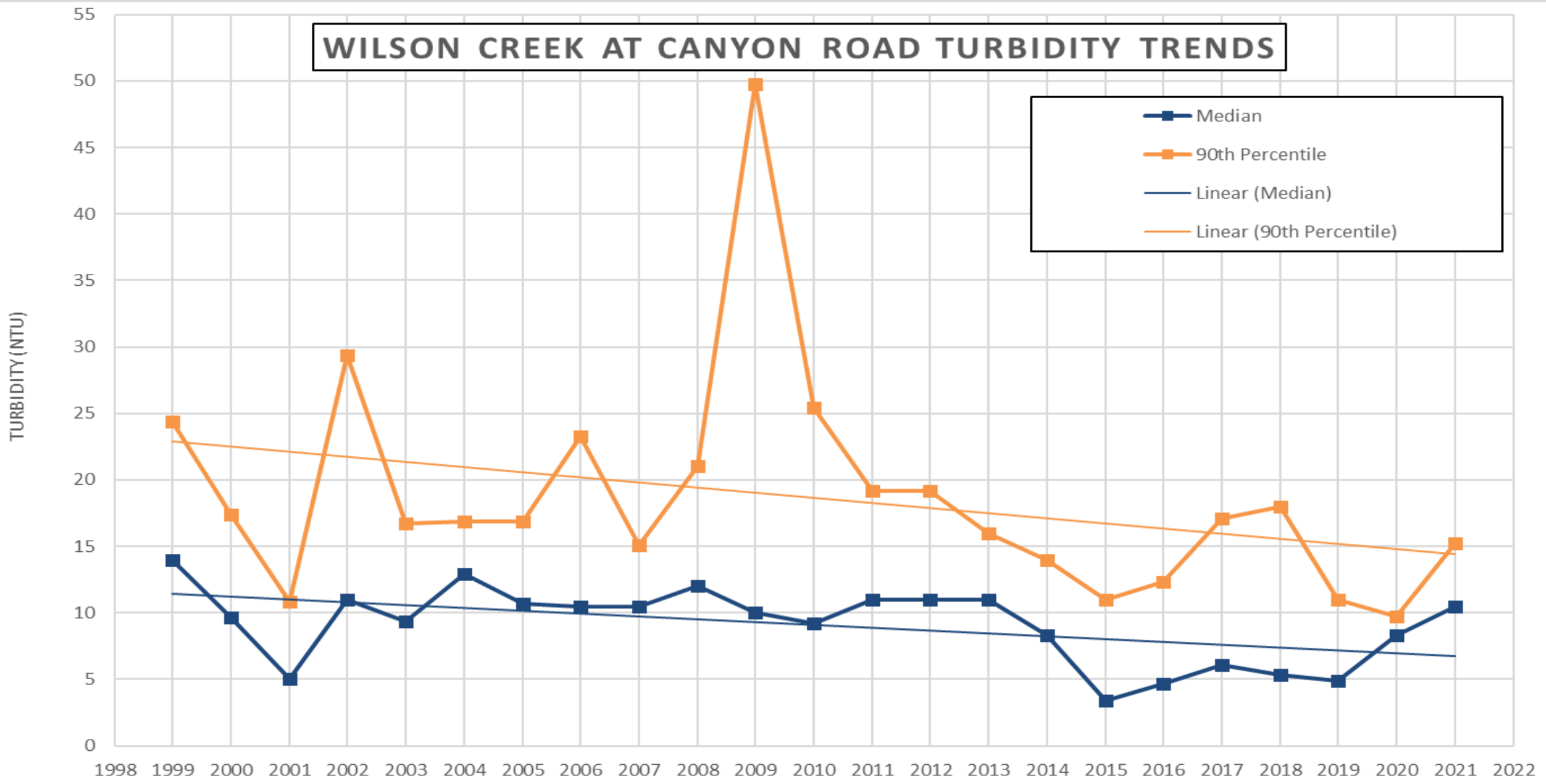
July 2021
Publication 21-03-013

2021 90th percentiles--east of Yakima River

^ Sites are TMDL background sites
* Sites are TMDL compliance points
Blue is background site
Green meets standards
Yellow is 5-10 NTU over standards
Red is 15-20 NTU over standards

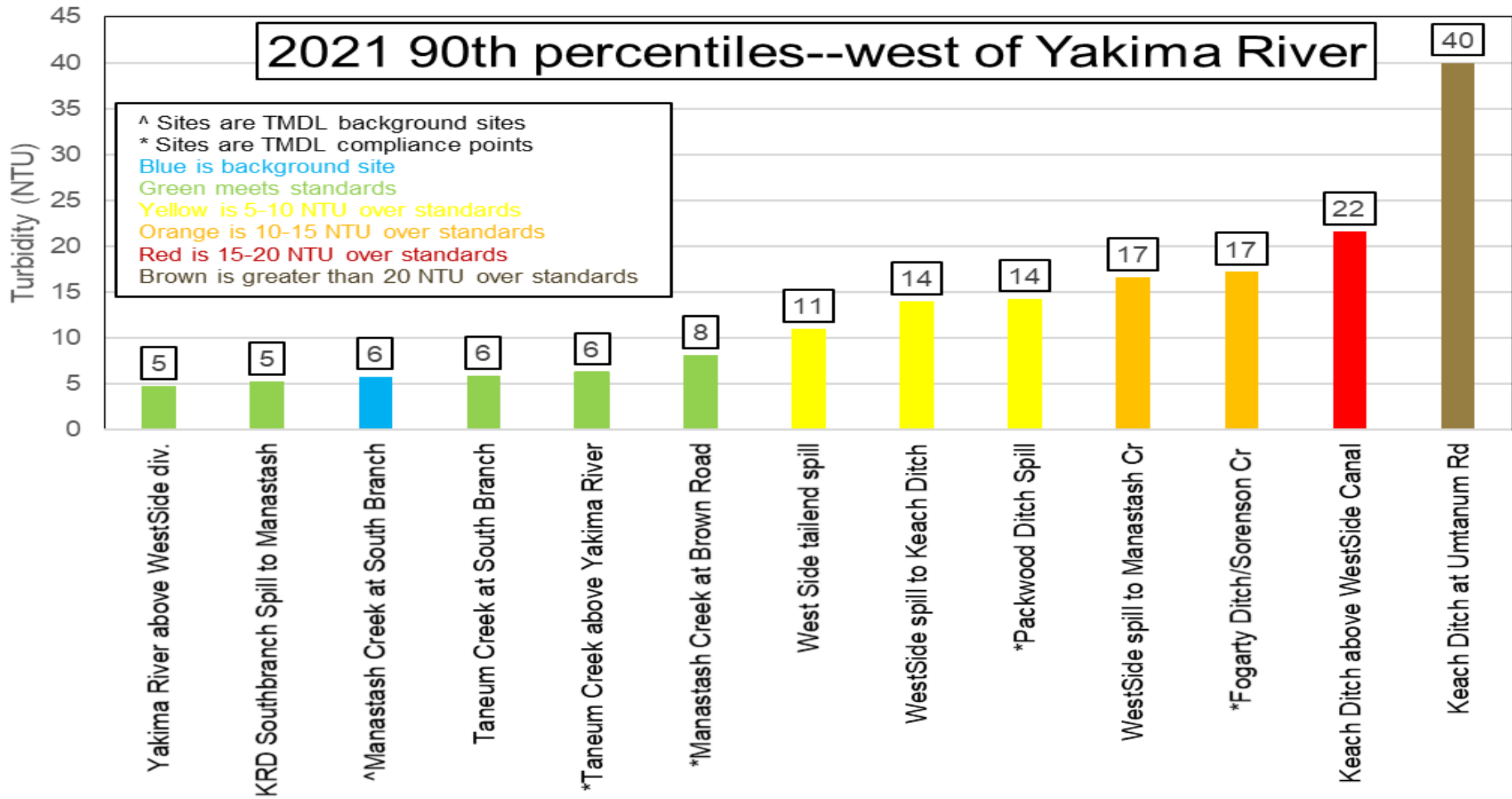


WILSON CREEK AT CANYON ROAD TURBIDITY TRENDS



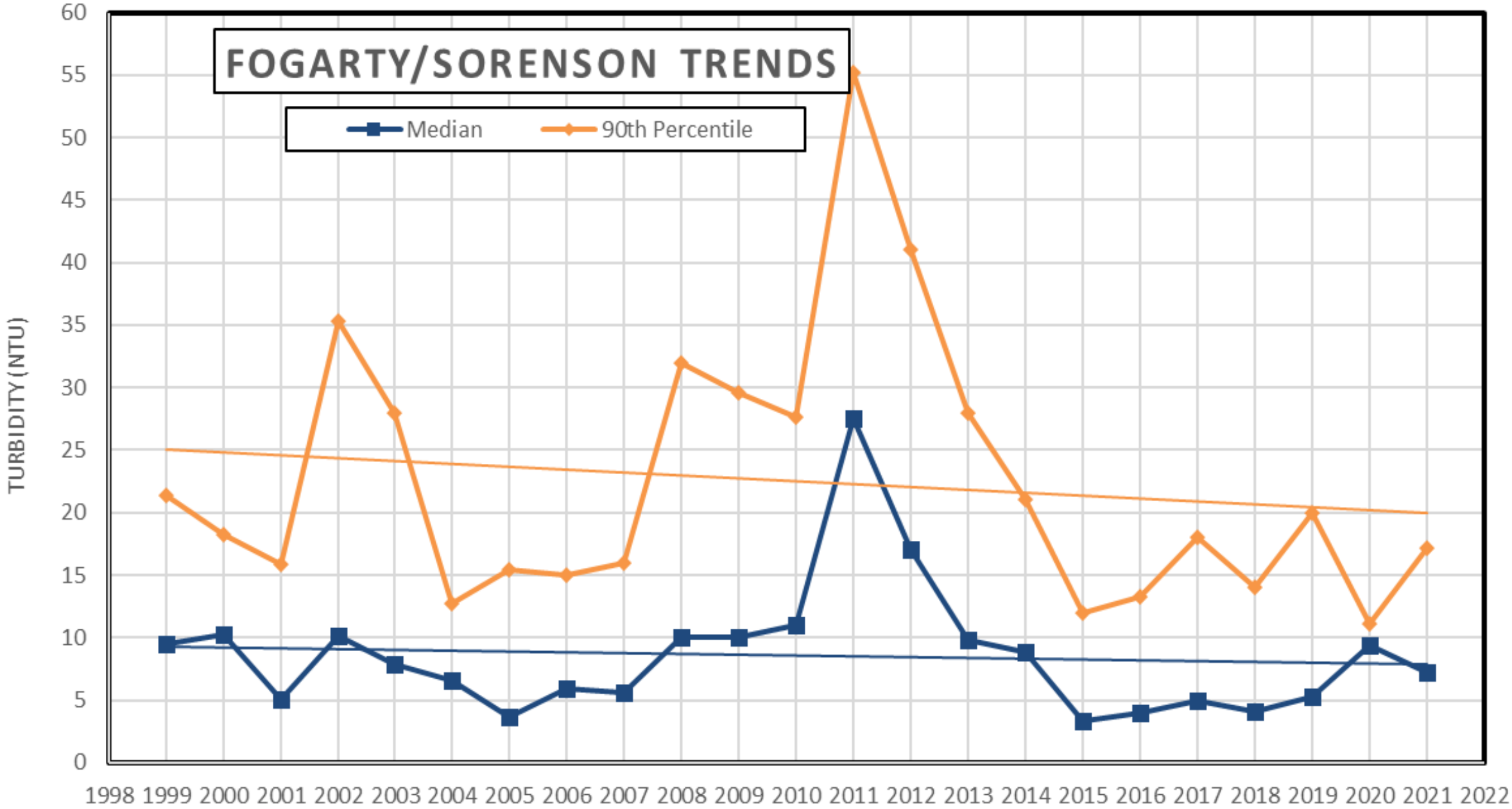
2021 90th percentiles--west of Yakima River

^ Sites are TMDL background sites
* Sites are TMDL compliance points
Blue is background site
Green meets standards
Yellow is 5-10 NTU over standards
Orange is 10-15 NTU over standards
Red is 15-20 NTU over standards
Brown is greater than 20 NTU over standards



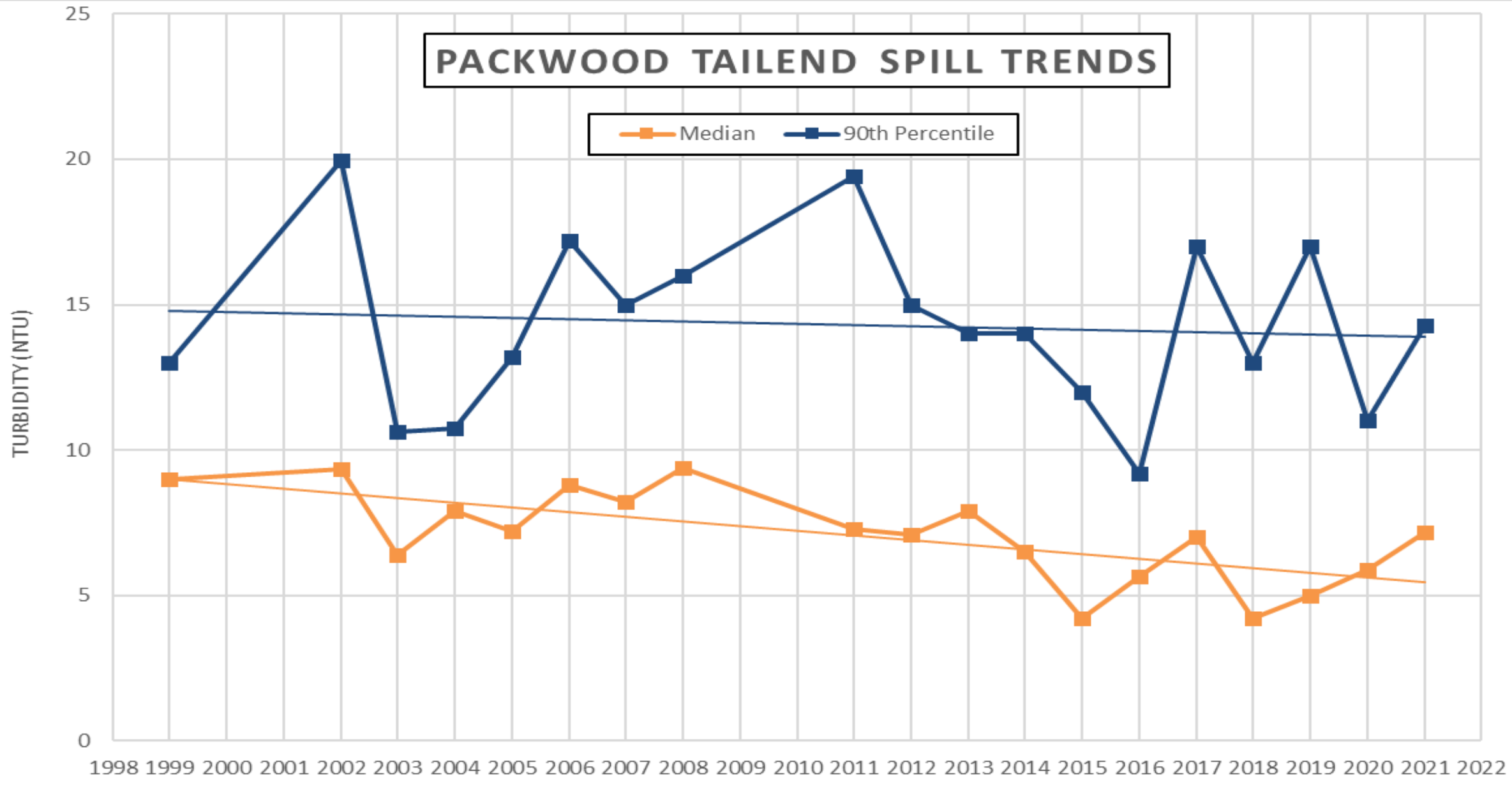
FOGARTY/SORENSEN TRENDS

Median 90th Percentile



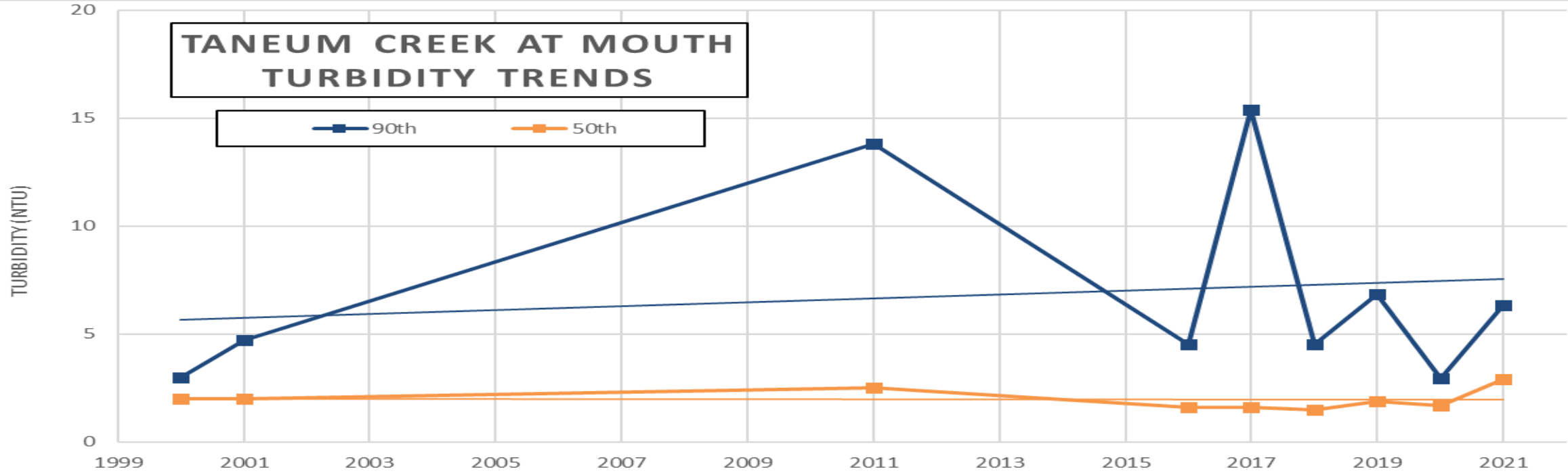
PACKWOOD TALEND SPILL TRENDS

Median 90th Percentile



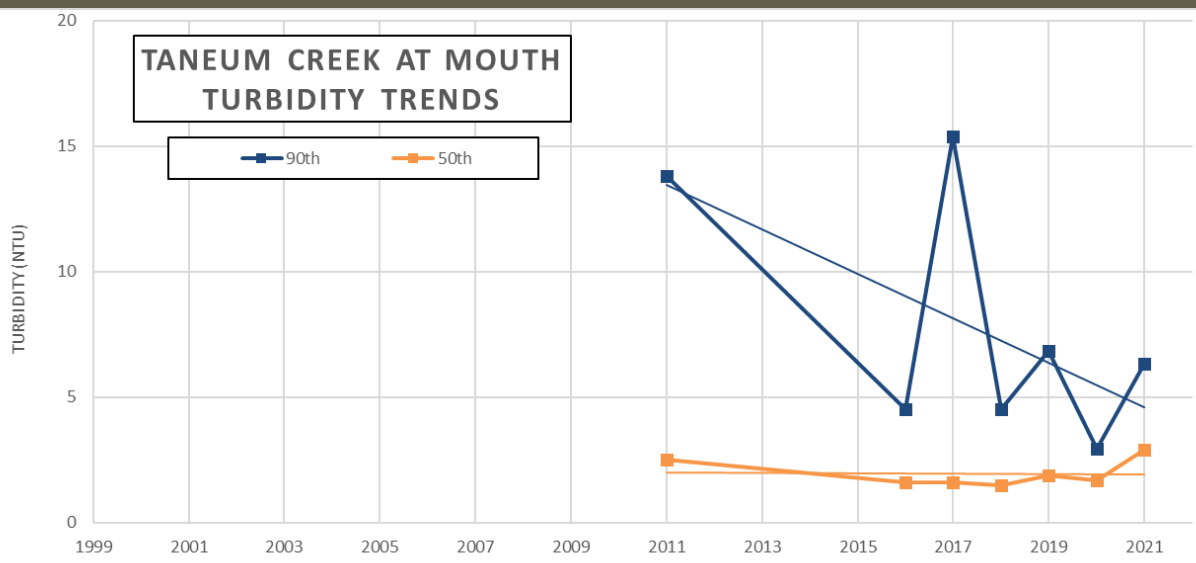
TANEUM CREEK AT MOUTH TURBIDITY TRENDS

90th 50th



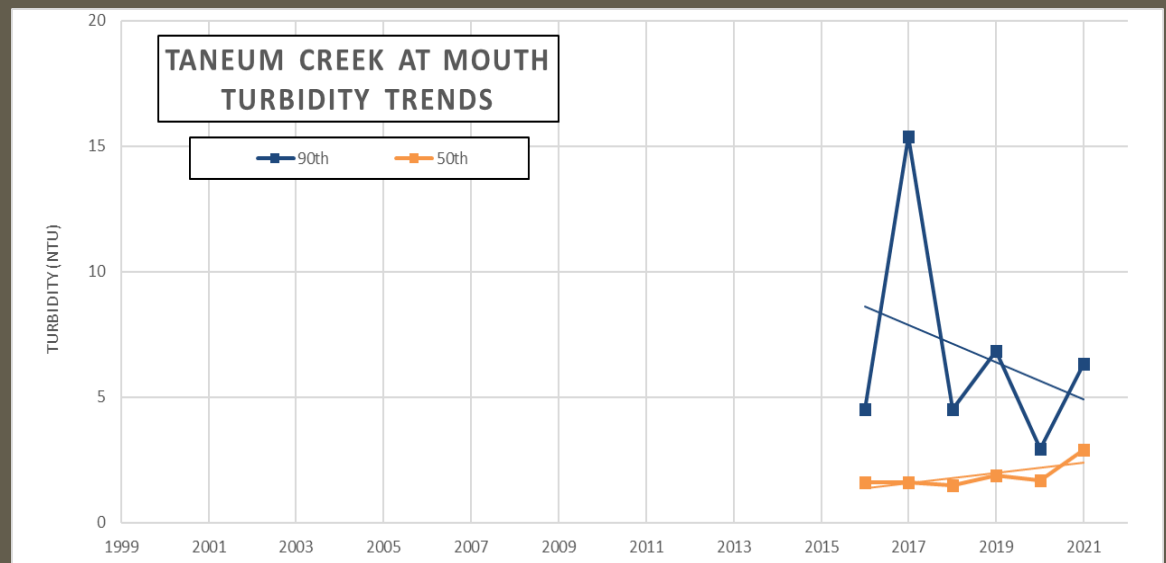
TANEUM CREEK AT MOUTH TURBIDITY TRENDS

90th 50th

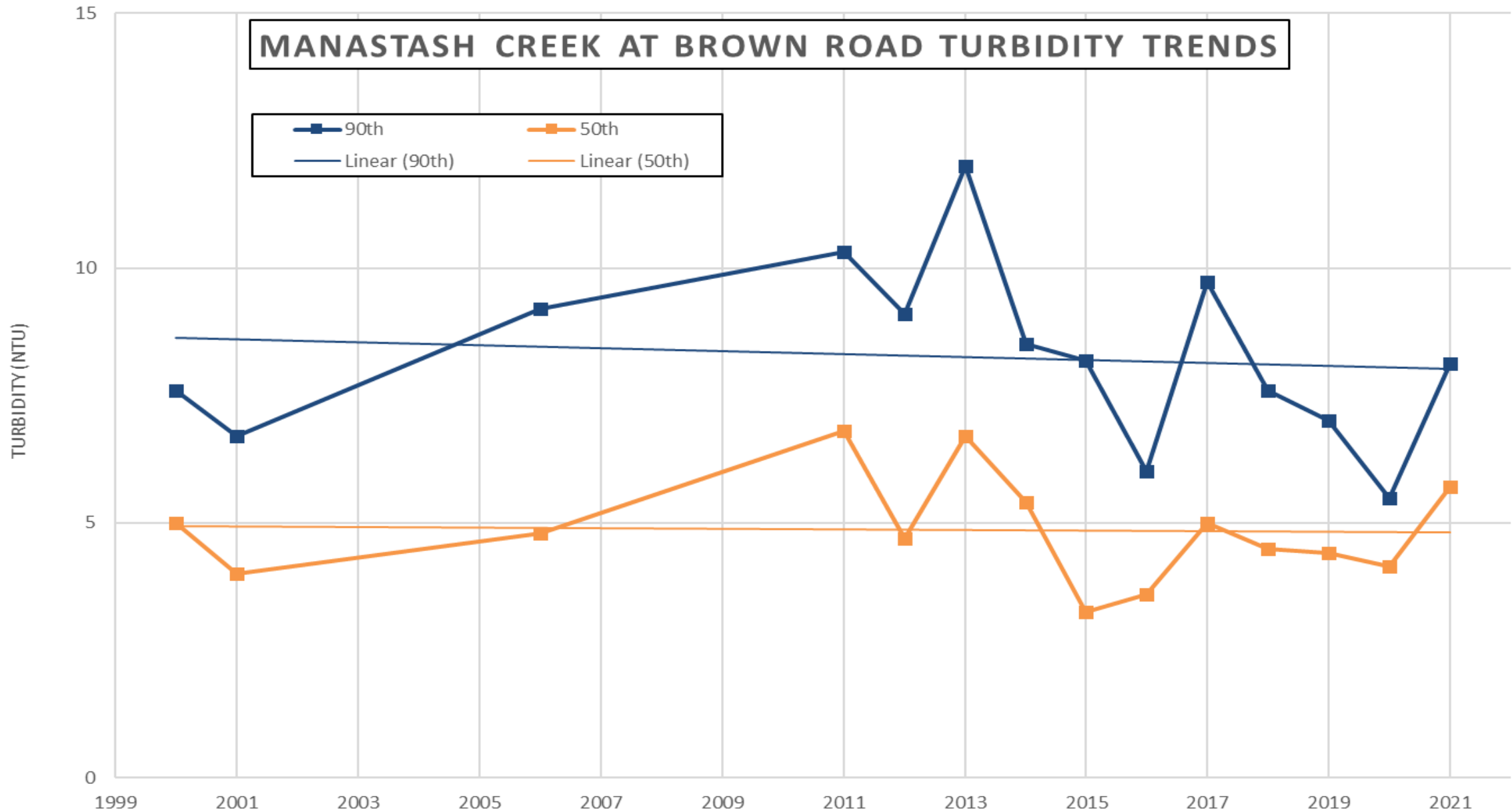


TANEUM CREEK AT MOUTH TURBIDITY TRENDS

90th 50th



MANASTASH CREEK AT BROWN ROAD TURBIDITY TRENDS



TAKEAWAYS

- **Compliance points**

- Met target:
 - Taneum Creek at mouth
 - Manastash Creek at Brown Rd
- Were within 5-10 NTU of target:
 - Wilson Creek at Canyon Rd (+2)
 - Packwood Ditch (+3)
 - Fogarty/Sorenson (+6)

- **Actions needed:**

- Continue on-farm support for irrigators in any way possible
- Implement solutions, including infrastructure, in long-term problem areas where issues are not the result of on-farm irrigation practices
- Continue monitoring to support irrigators and the VSP process