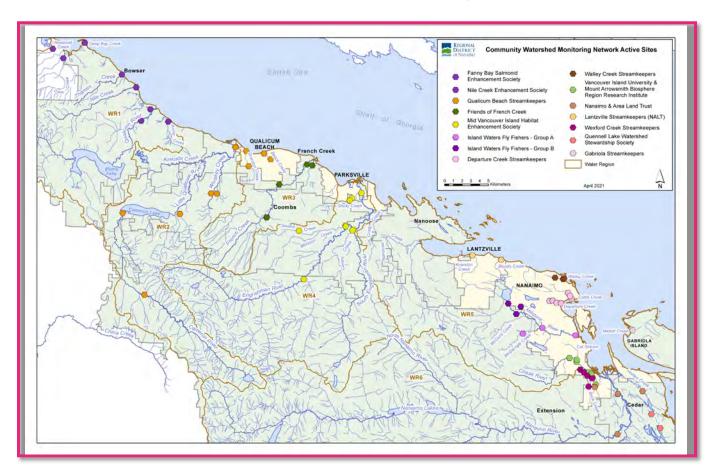
Community Watershed Monitoring Network 2020 Results by Water Region



Included in your Water Region Package:

- 1. CWMN Sample Sites in Water Region (WR) 5-1
- 2. How to Interpret a Box Plot and Summer / Fall Exceedance Maps
- 3. Box Plot Comparison 2020 Data to Previous Years: Graphs displayed per parameter (Temperature, Dissolved Oxygen, Turbidity, Conductivity) and per sample period (summer and fall)
- 4. 2011-2020 Water Quality Trend Analysis Map
- 5. 2011-2020 Summer Exceedance Map
- 6. 2011-2020 Fall Exceedance Map
- 7. LNS Site Map
- 8. DCS Site Map
- 9. WCS Site Map



Water Region 5-1 sampled by:

Nanoose Streamkeepers Society and Lantzville Streamkeepers (LNS),

Departure Creek Streamkeepers (DCS)

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Walley Creek Streamkeepers (WCS)

CWMN Sample Sites in WR 5-1:

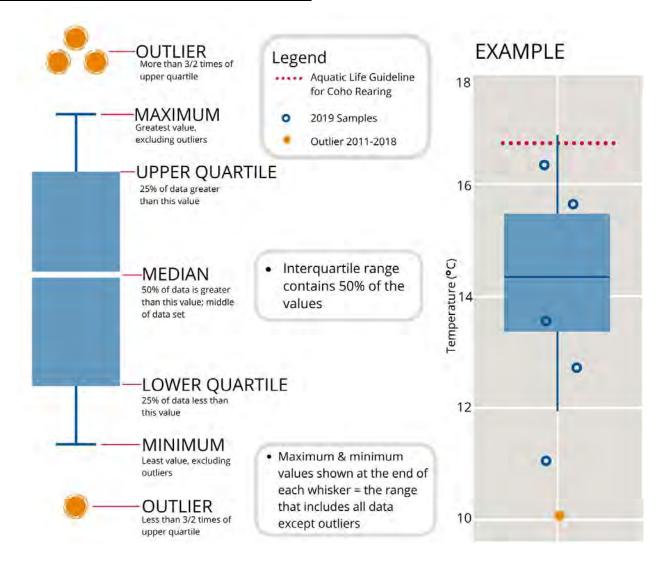
The table below shows the groups and sites monitored, as well as the number of years and which years a site was sampled. The number of years is important to keep in mind when interpreting the box plots as the plot for each site may contain a slightly different temporal range.

Group	EMS ID	Geographic Description	Years Sampled*	Years Monitored
LNS	E294010	Bloods Creek just u/s Dickenson Rd	3.5	fall 2017 - present
LNS	E294013	Knarston Ck just u/s Lantzville Rd	3.5	fall 2017 - present
DCS	E290469	Departure Ck @ Neyland Rd (Stn1)	9	2012 - present
DCS	E290470	Josephs Ck (Dept Ck trib) off Newton (Stn 2)	9	2012 - present
DCS	E290471	Departure Ck in Woodstream Park (Stn 3)	9	2012 - present
DCS	E290472	Departure Ck @ outlet (Stn 4)	9	2012 - present
DCS	E290473	Cottle Creek @ Nottingham	9	2012 - present
DCS	E309186	Cottle Creek d/s of Hammond Bay Road	4	2017 - present
DCS	E290475	Cottle Creek @ Stephenson Pt Rd	9	2012 - present
WCS	E306256	Walley Ck d/s Hammond Bay	5	2016 - present
WCS	E306257	Walley Ck @ Morningside Dr	5	2016 - present
WCS	E306434	Walley Creek 20m u/s beach	5	2016 - present

^{*}The number of years sampled up to and including 2020.



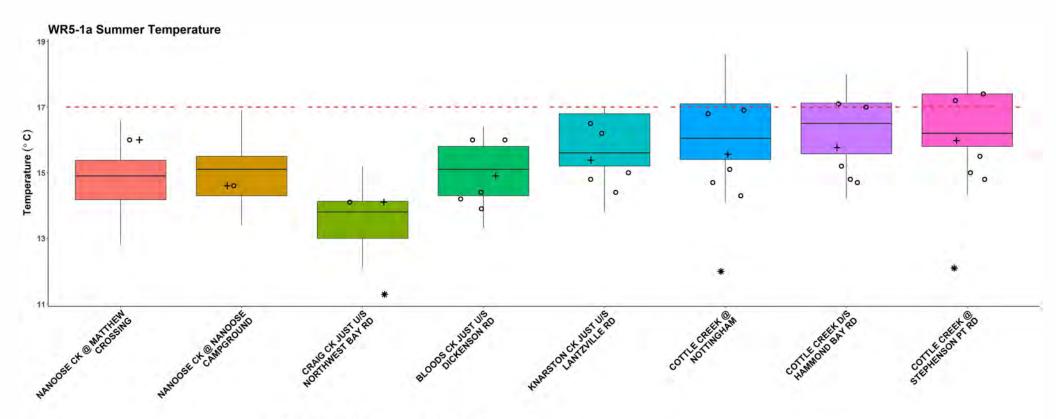
How to Interpret a Box Plot:



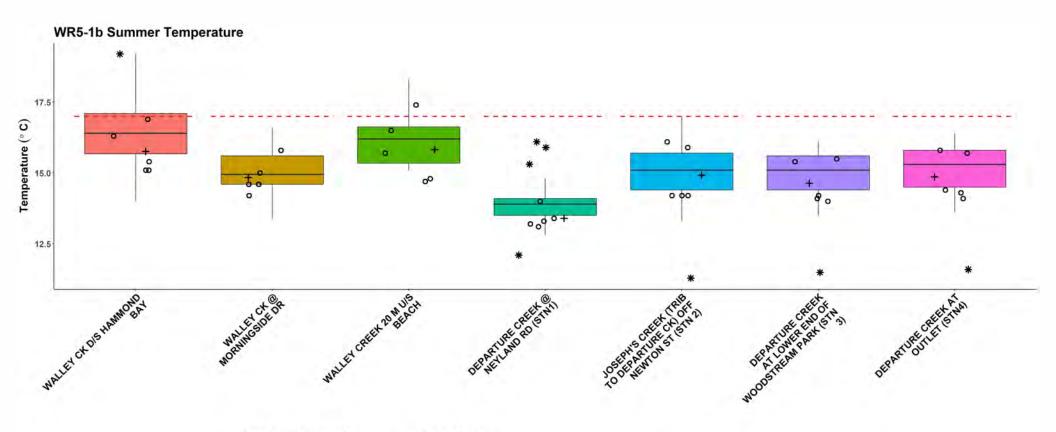
How to Interpret Summer and Fall Exceedance Maps:

The summer and fall exceedance frequency maps included in this package express the number of sample periods (summer low-flow / fall flush) with exceedances for each site. There are four frequency categories for the number of sample periods with exceedances: no exceedance recorded (0), low (1-2), moderate (3-4), and high (5 or more). The exceedance categories are for the three parameters with aquatic water quality guidelines and objectives based on the following thresholds: temperature $\geq 17^{\circ}$ C, dissolved oxygen ≤ 5 mg/L, summer turbidity ≥ 2 NTU, and fall turbidity ≥ 5 NTU.





- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg
- Guideline
- -- Aquatic Life Guideline for Coho Rearing (17°C)

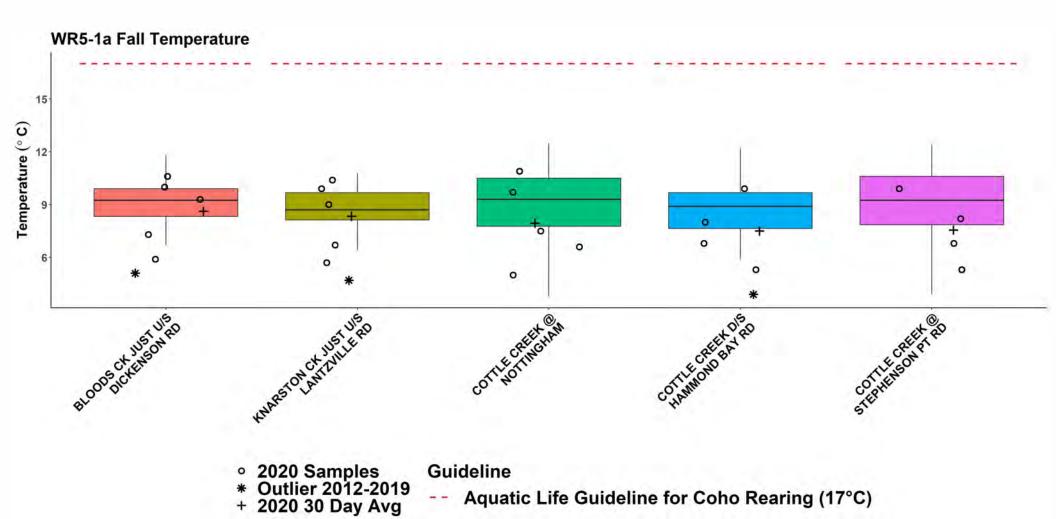


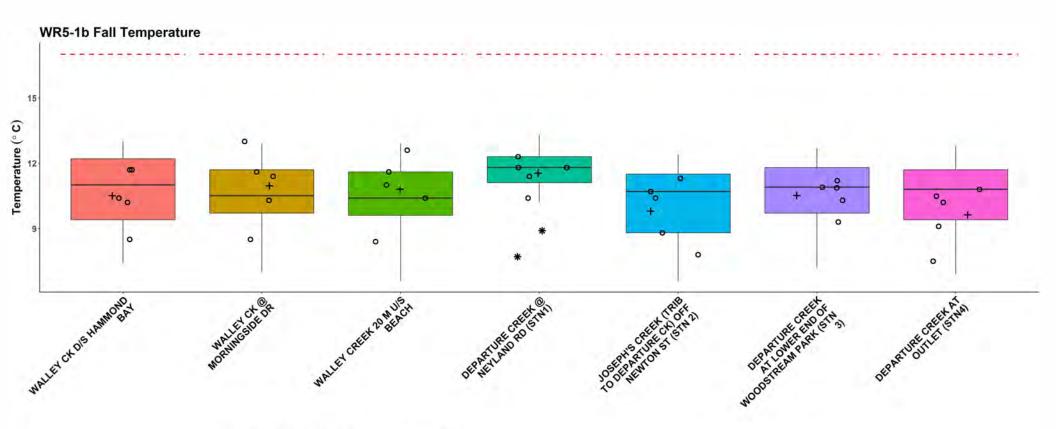
- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg

Guideline

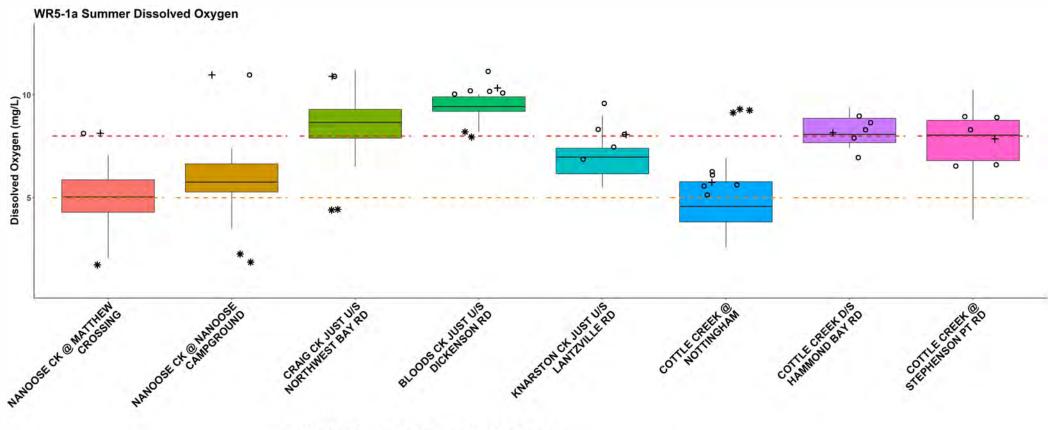
-- Aquatic Life Guideline for Coho Rearing (17°C)



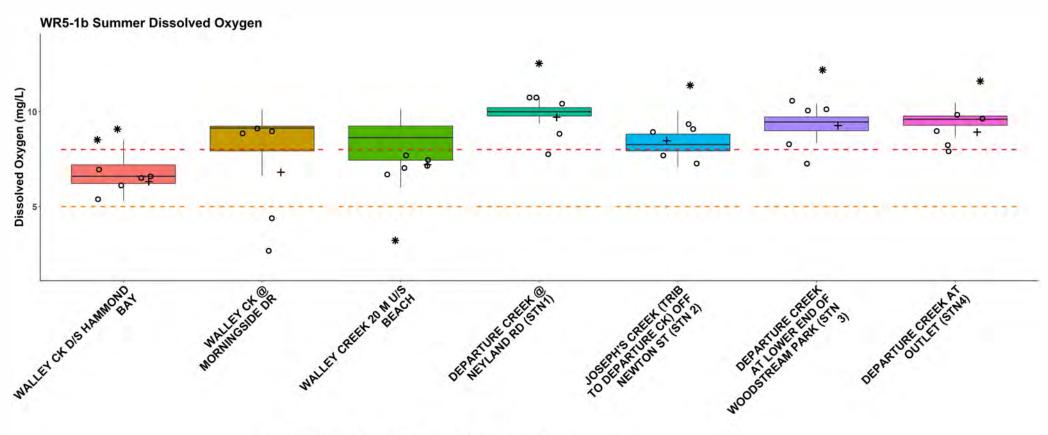




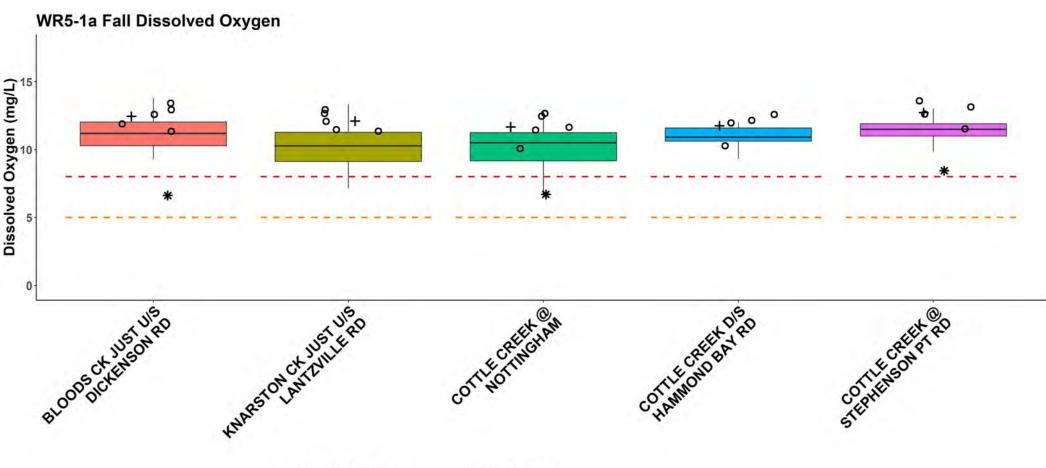
- Guideline
- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg
- -- Aquatic Life Guideline for Coho Rearing (17°C)



- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg Guideline
- 30 Day Average (<8 mg/L) Instantaneous Minimum (<5 mg/L)



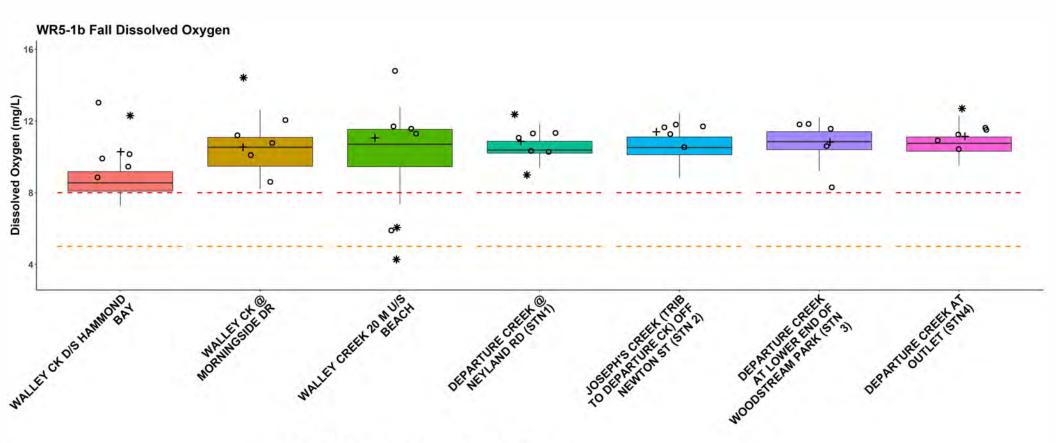
- Guideline
- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg
 - 30 Day Average (<8 mg/L) Instantaneous Minimum (<5 mg/L)



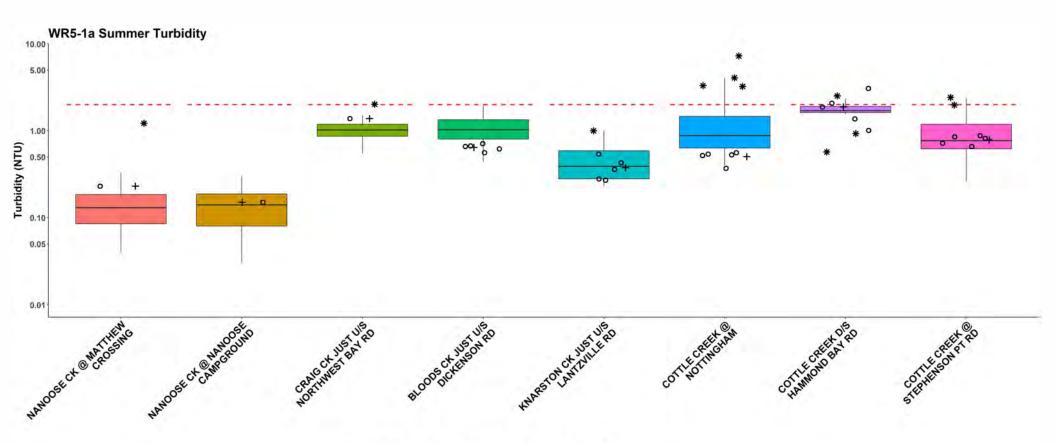
- 2020 Samples* Outlier 2012-2019+ 2020 30 Day Avg

- Guideline

 - 30 Day Average (<8 mg/L) Instantaneous Minimum (<5 mg/L)

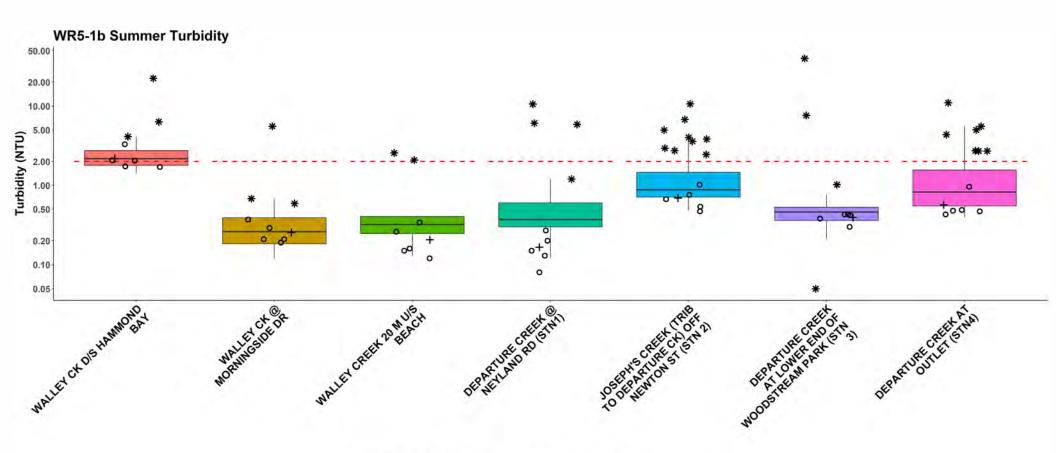


- Guideline
- 2020 Samples Outlier 2012-2019 2020 30 Day Avg 30 Day Average (<8 mg/L) Instantaneous Minimum (<5 mg/L)



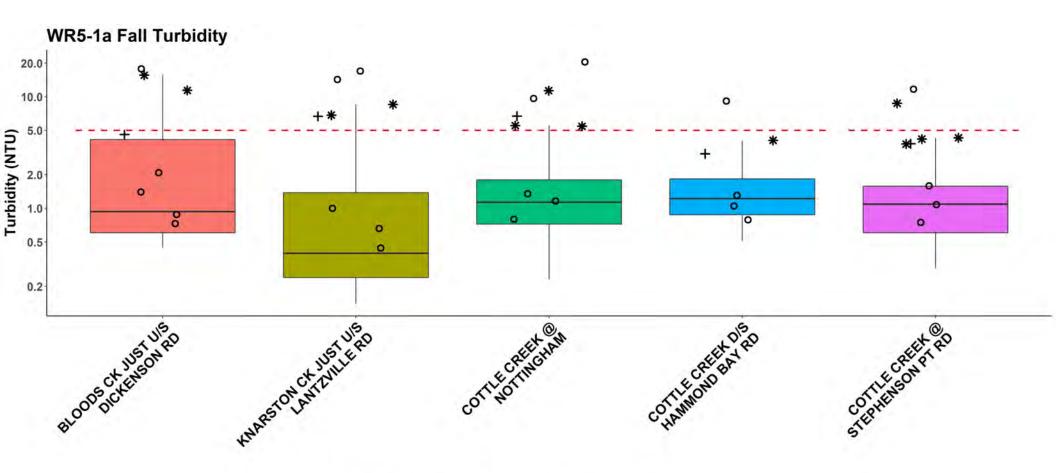
- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg
- Guideline
- Jan-Sept Max (2 NTU)





- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg
- Guideline
 - Jan-Sept Max (2 NTU)



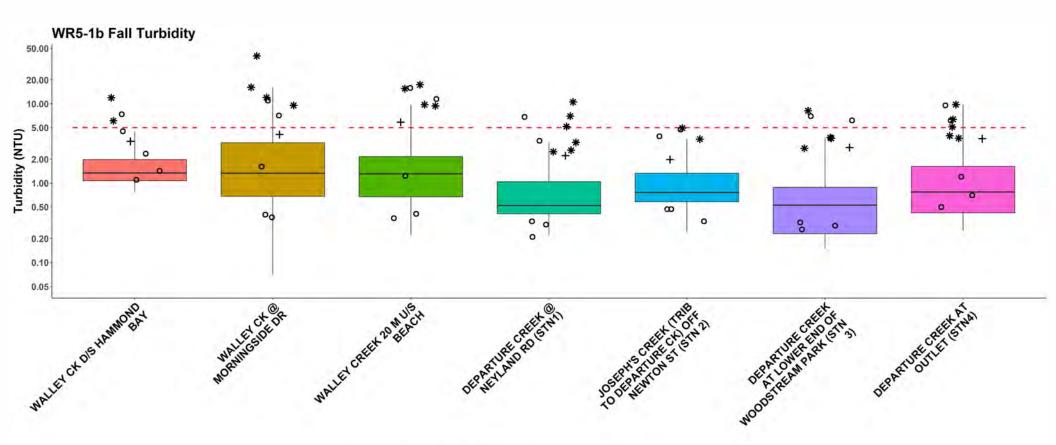


- 2020 Samples* Outlier 2012-2019+ 2020 30 Day Avg

Guideline

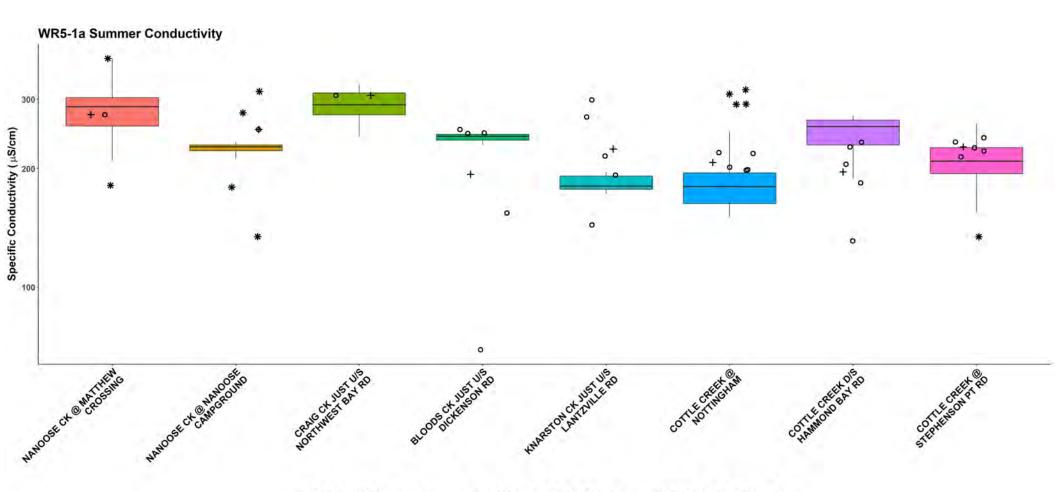
Oct-Dec Max (5 NTU)





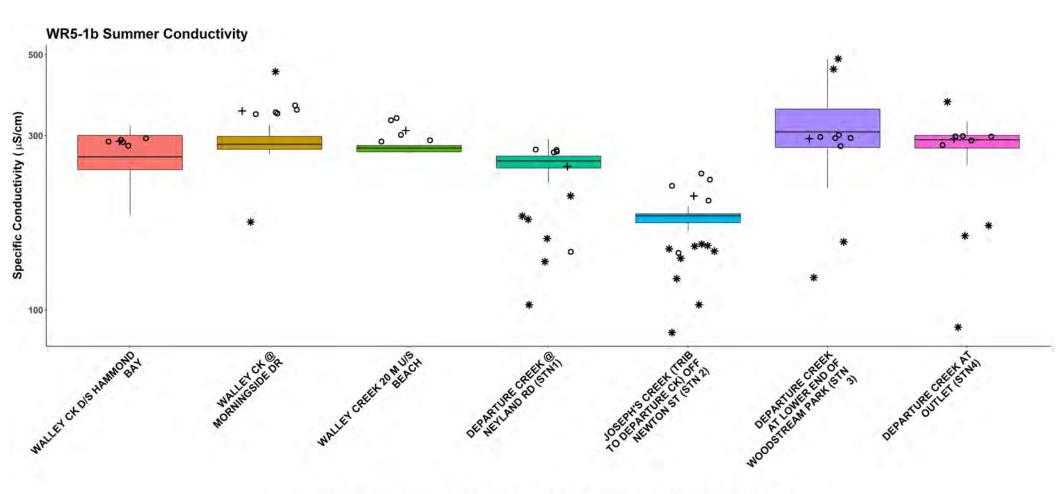
- 2020 Samples
 Outlier 2012-2019
 2020 30 Day Avg
- Guideline
- Oct-Dec Max (5 NTU)





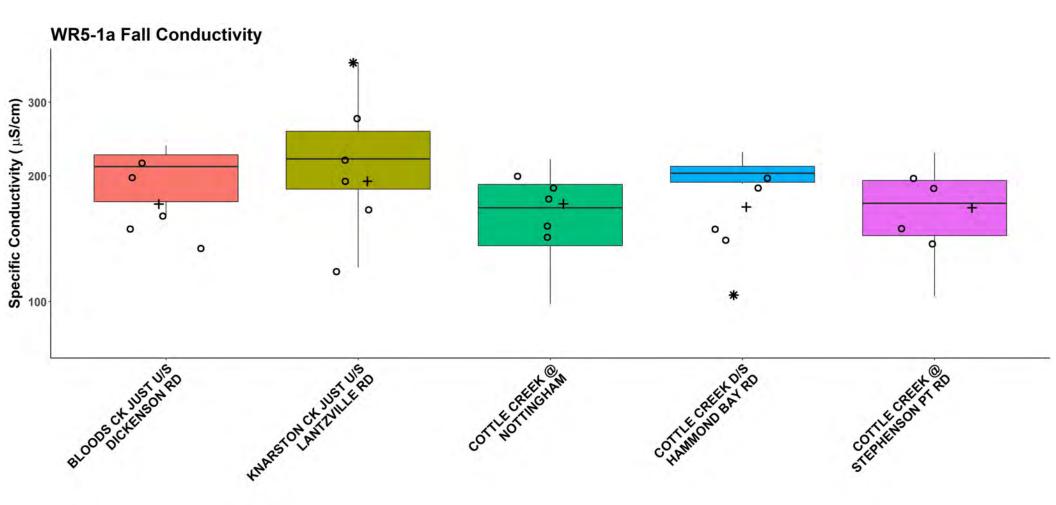
2020 Samples * Outlier 2012-2019 + 2020 30 Day Avg



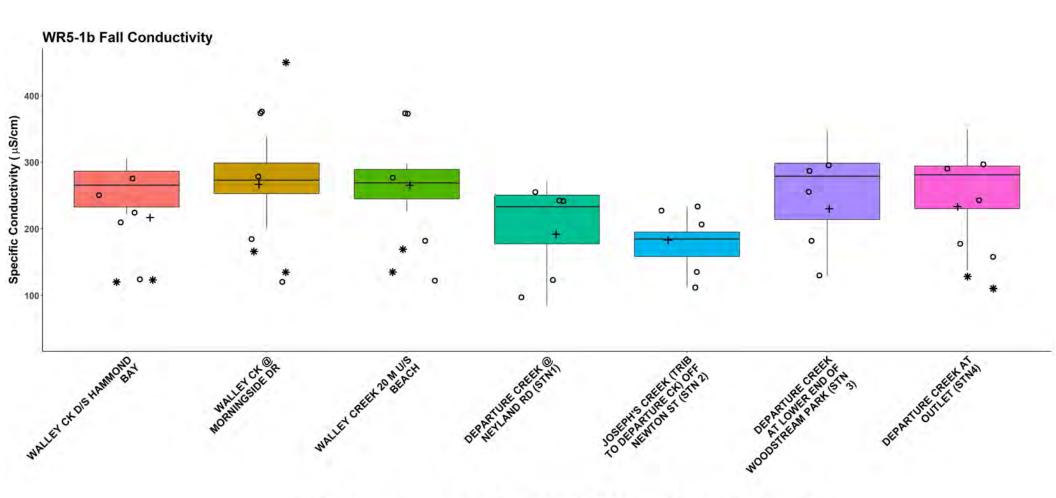


2020 Samples * Outlier 2012-2019 + 2020 30 Day Avg





o 2020 Samples * Outlier 2012-2019 + 2020 30 Day Avg



2020 Samples * Outlier 2012-2019 + 2020 30 Day Avg

