

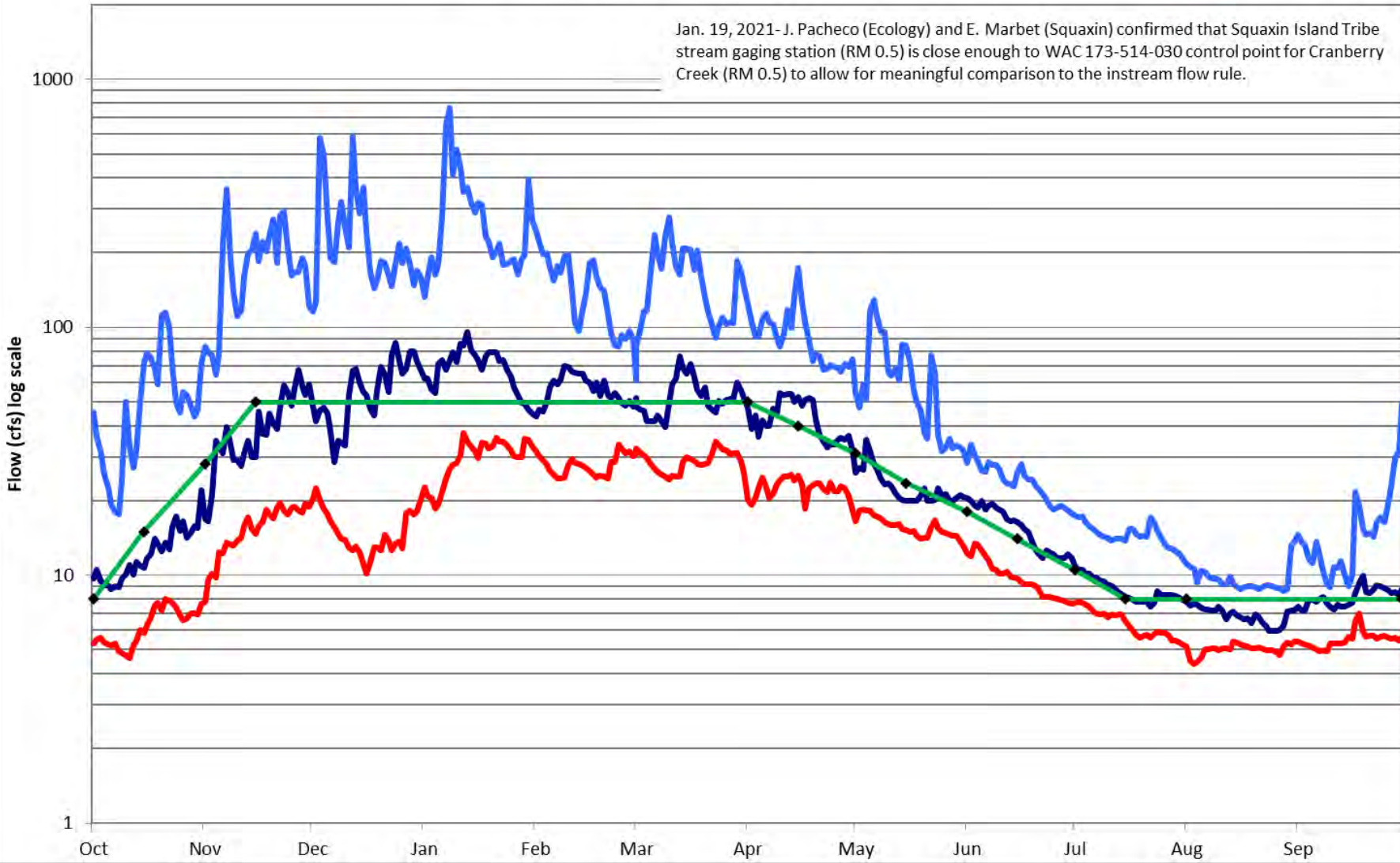
## Appendix K – WRIA 14 Streamflow Statistics

The following information was prepared by Jim Pacheco (Department of Ecology) and Erica Marbet (Squaxin Island Tribe) for the WRIA 14 Committee for the purposes of this watershed plan.

Lat 47.264634  
Long -123.011652

### CRANBERRY CREEK AT HWY 3 Flow exceedance Probability Hydrograph RM 0.5; Period of Record: 2006 - 2018

- 10% exceedance
- 50% exceedance
- 90% exceedance
- Instream Flow RM 0.5

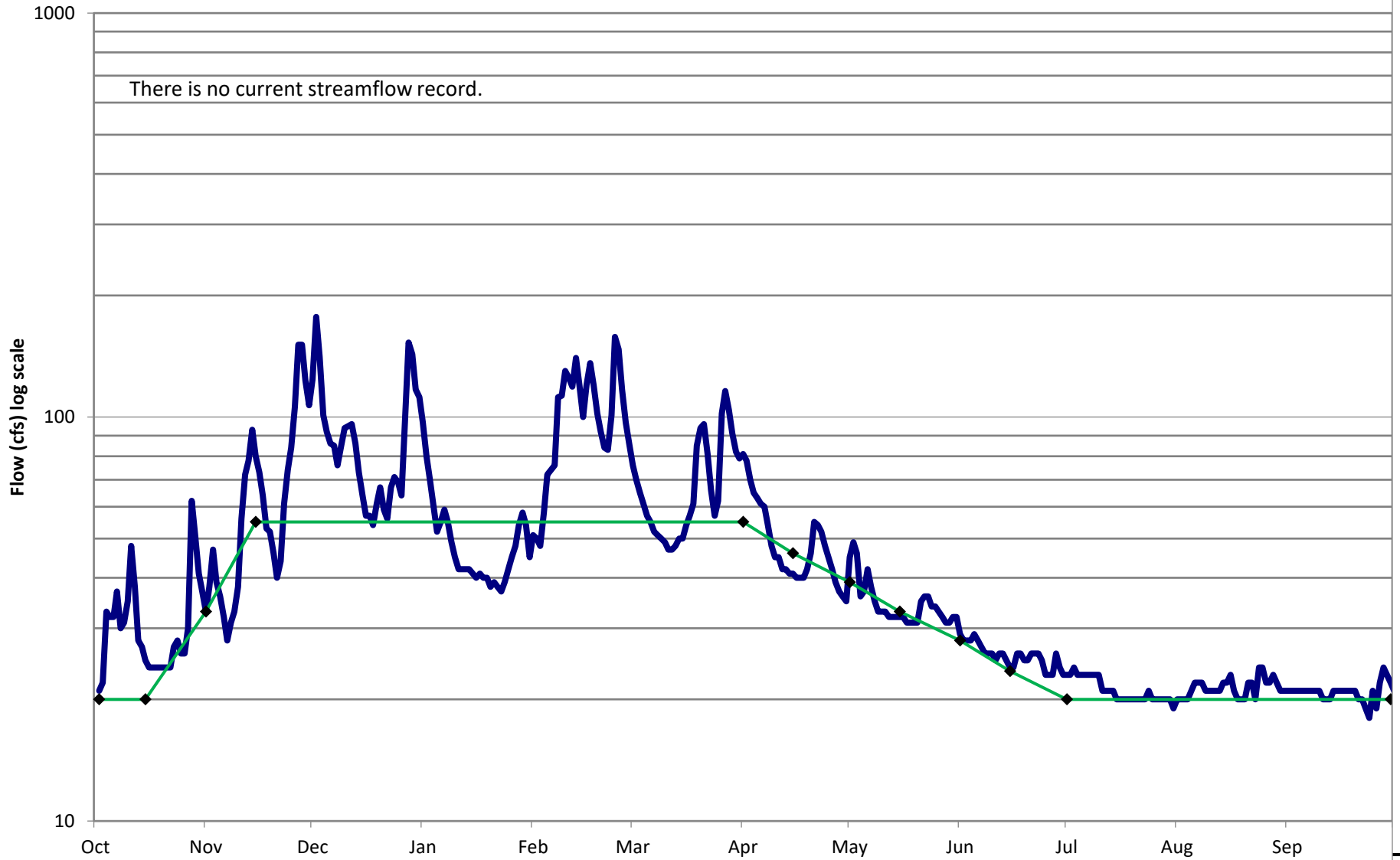


# DEER CREEK NEAR SHELTON, WA

## Flow exceedance Probability Hydrograph

### USGS 12075000, RM 0.8; Period of Record: 1949 - 1950

- 10% exceedance
- 50% exceedance
- 90% exceedance
- Instream Flow RM 0.8



Lat. 47°12'43"  
Long. 123°06'42"

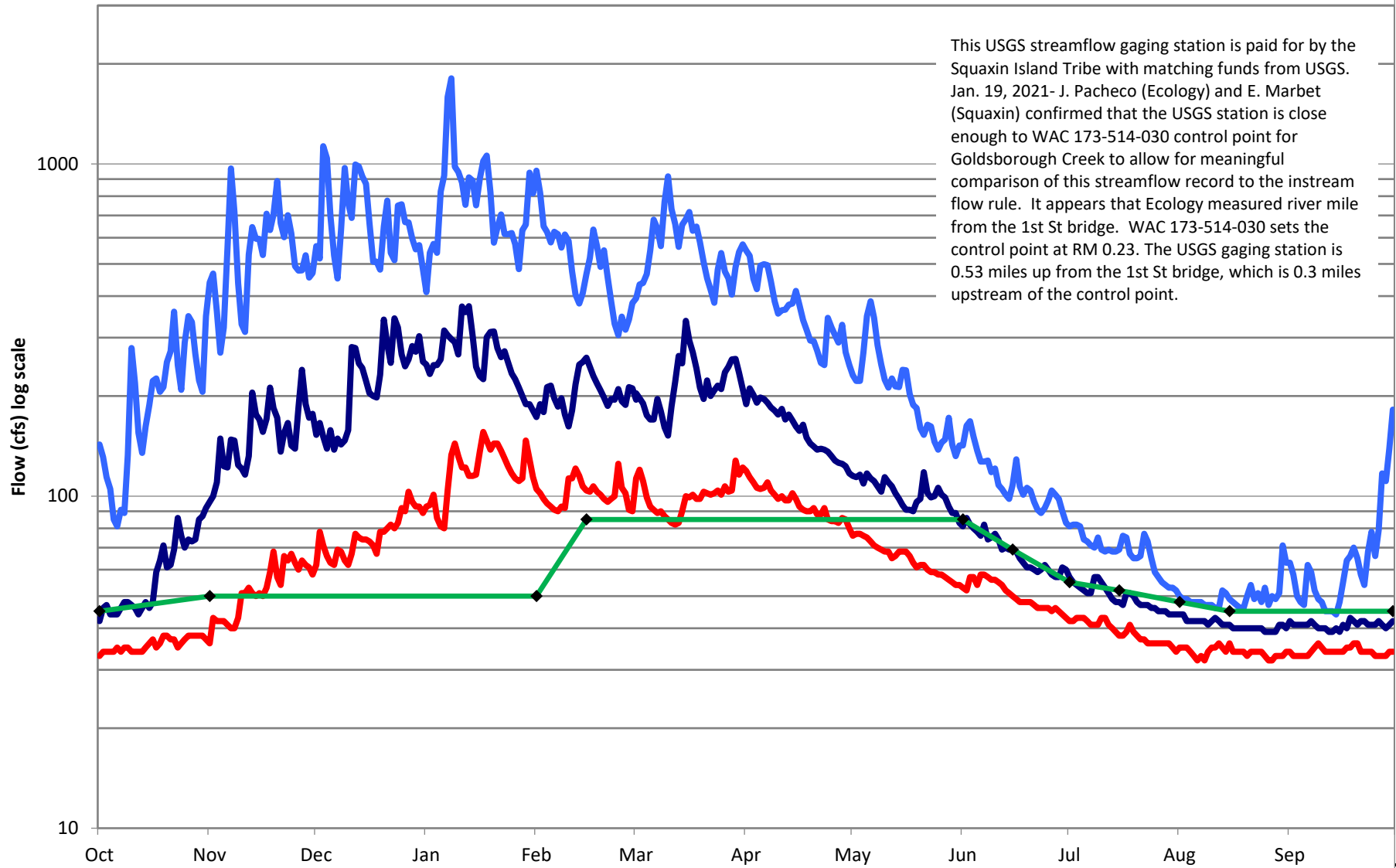
# GOLDSBOROUGH CREEK ABOVE 7TH STREET

## Flow exceedance Probability Hydrograph

### USGS 12076800, RM 0.53; Period of Record: 2005 - 2020

- 10% exceedance
- 50% exceedance
- 90% exceedance
- Instream Flow RM 0.23

This USGS streamflow gaging station is paid for by the Squaxin Island Tribe with matching funds from USGS. Jan. 19, 2021- J. Pacheco (Ecology) and E. Marbet (Squaxin) confirmed that the USGS station is close enough to WAC 173-514-030 control point for Goldsborough Creek to allow for meaningful comparison of this streamflow record to the instream flow rule. It appears that Ecology measured river mile from the 1st St bridge. WAC 173-514-030 sets the control point at RM 0.23. The USGS gaging station is 0.53 miles up from the 1st St bridge, which is 0.3 miles upstream of the control point.

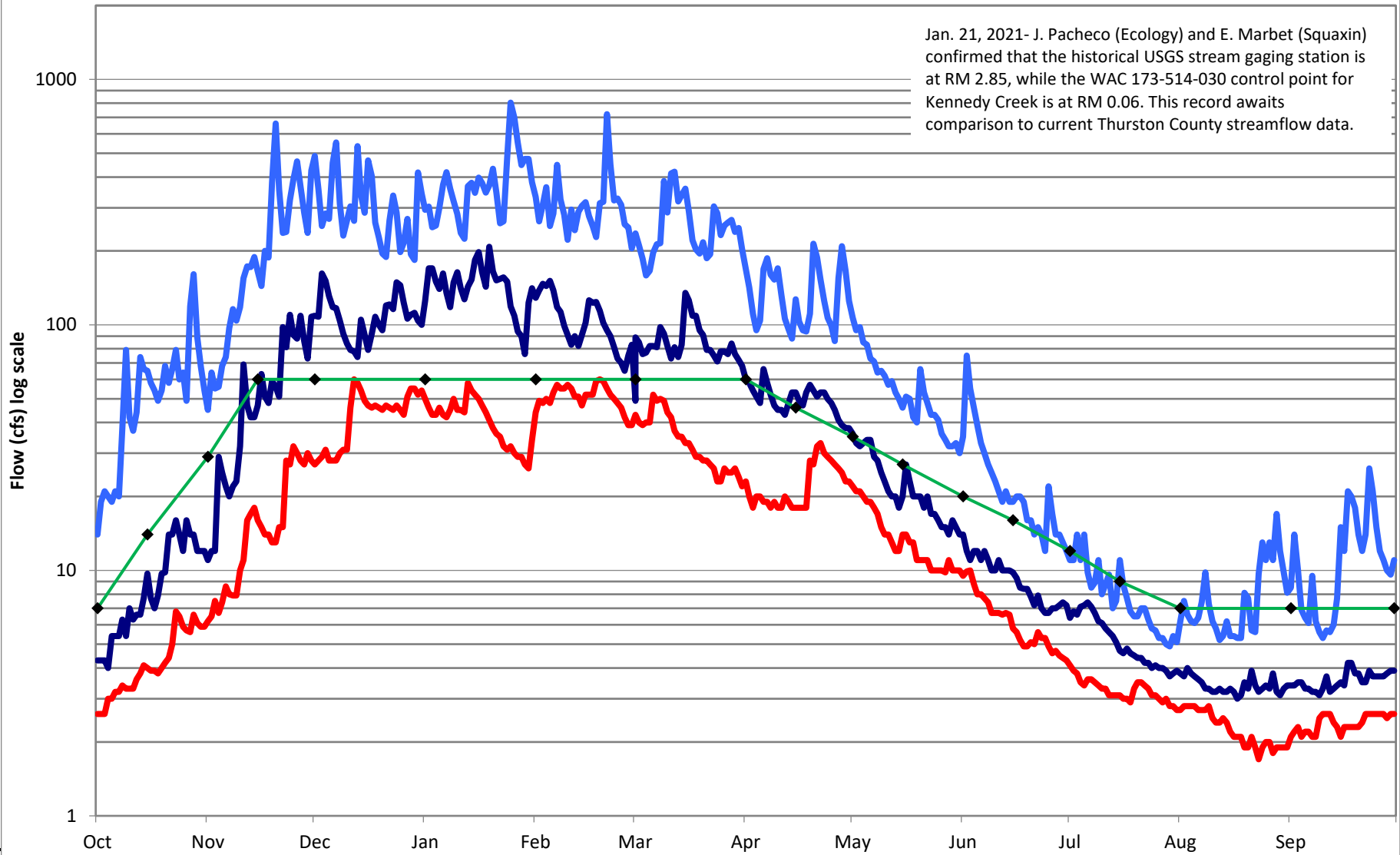


# KENNEDY CREEK NEAR KAMILCHE, WA

## Flow exceedance Probability Hydrograph

### USGS 12078400, RM 2.85; Period of Record: 1961 - 1971

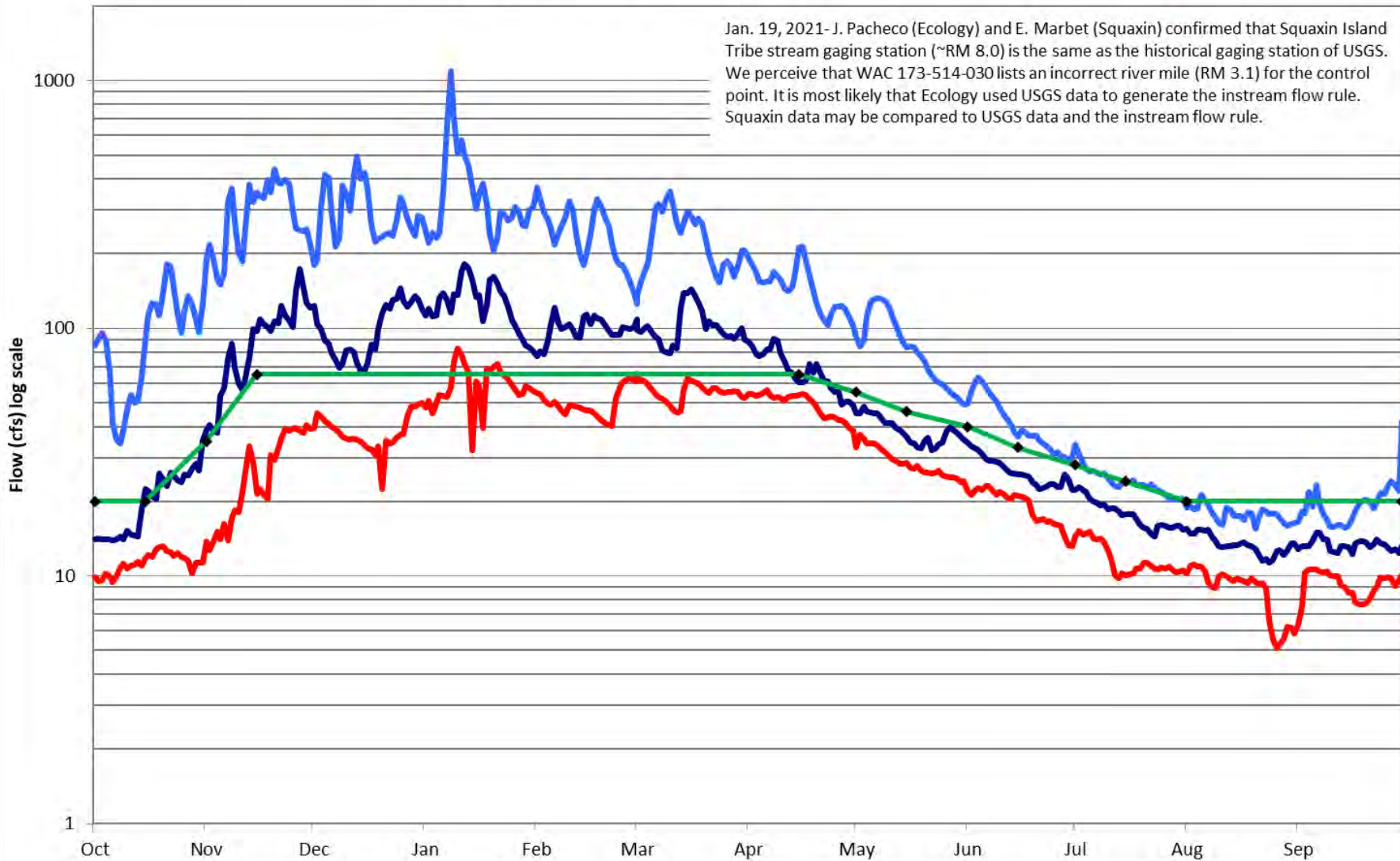
- 10% exceedance
- 50% exceedance
- 90% exceedance
- ◆— Instream Flow RM 0.06



Lat 47.193244  
Long -123.098900

### MILL CREEK AT HWY 3 Flow exceedance Probability Hydrograph RM 8.0; Period of Record: 2006 - 2018

- 10% exceedance
- 50% exceedance
- 90% exceedance
- Instream Flow RM 3.1



Lat 47.247823  
Long -123.045731

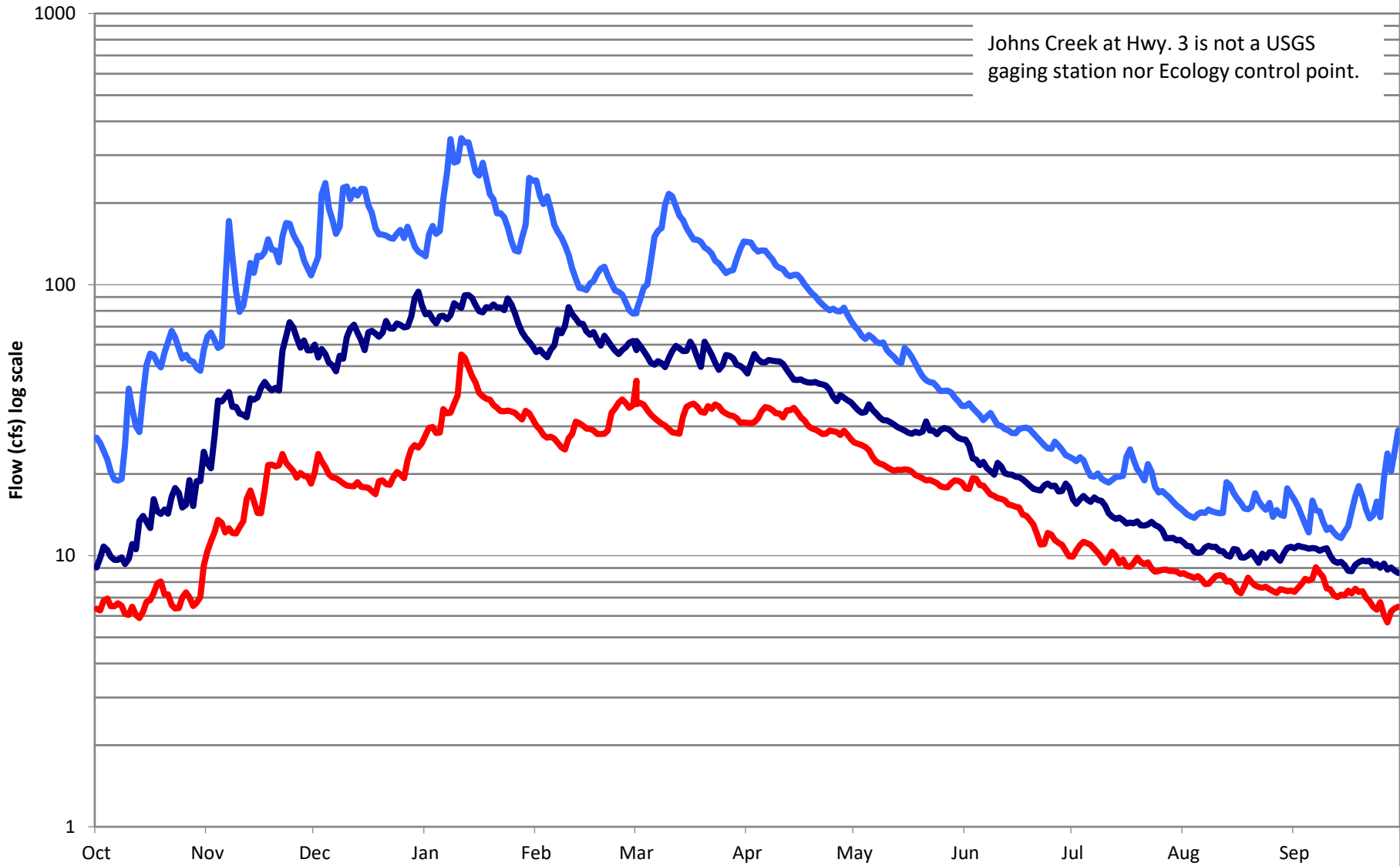
# JOHNS CREEK AT HWY 3

## Flow exceedance Probability Hydrograph

### Site 1 of 2, RM 0.4; Period of Record: 2006 - 2018

- 10% exceedance
- 50% exceedance
- 90% exceedance

Johns Creek at Hwy. 3 is not a USGS gaging station nor Ecology control point.



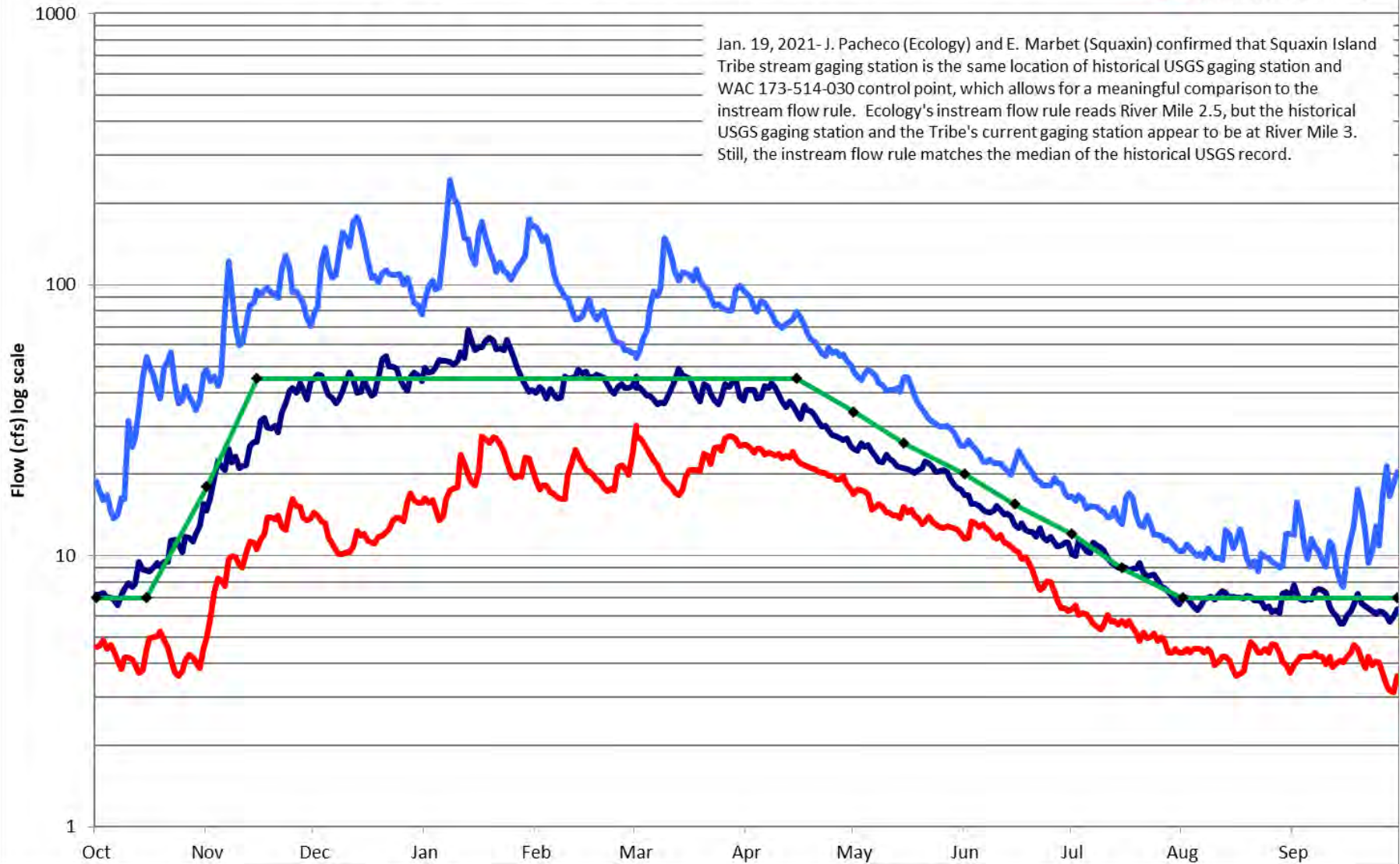
Lat 47.251970  
Long -123.086360

# JOHNS CREEK at JOHNS CR DRIVE

## Flow exceedance Probability Hydrograph

### Site 2 of 2, RM 3.0; Period of Record: 2005 - 2018

- 10% exceedance
- 50% exceedance
- 90% exceedance
- Instream Flow RM 2.5

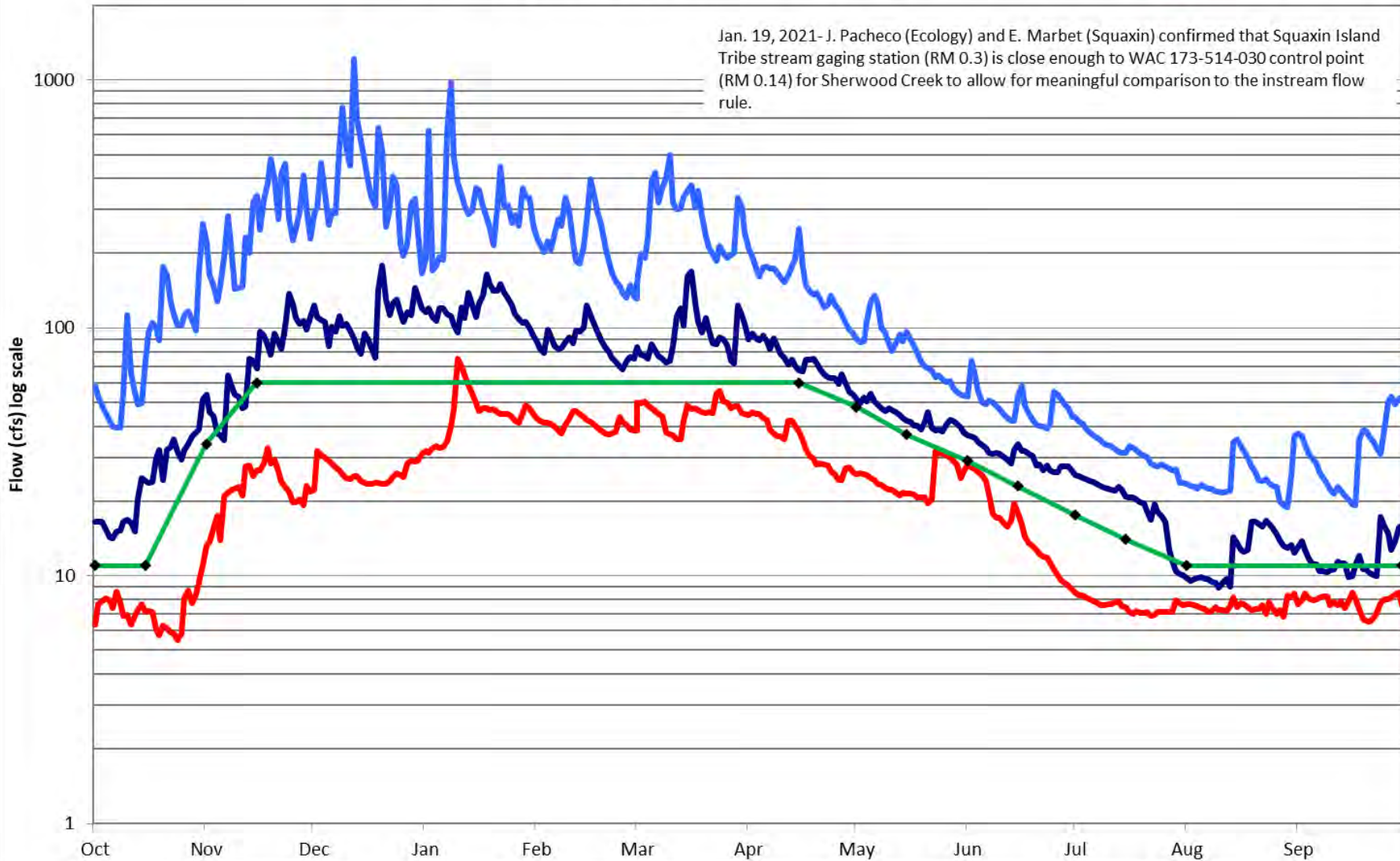




Lat 47.371609  
Long -122.843795

### SHERWOOD CREEK at SHERWOOD CR RD Flow exceedance Probability Hydrograph RM 0.3; Period of Record: 2008 - 2018

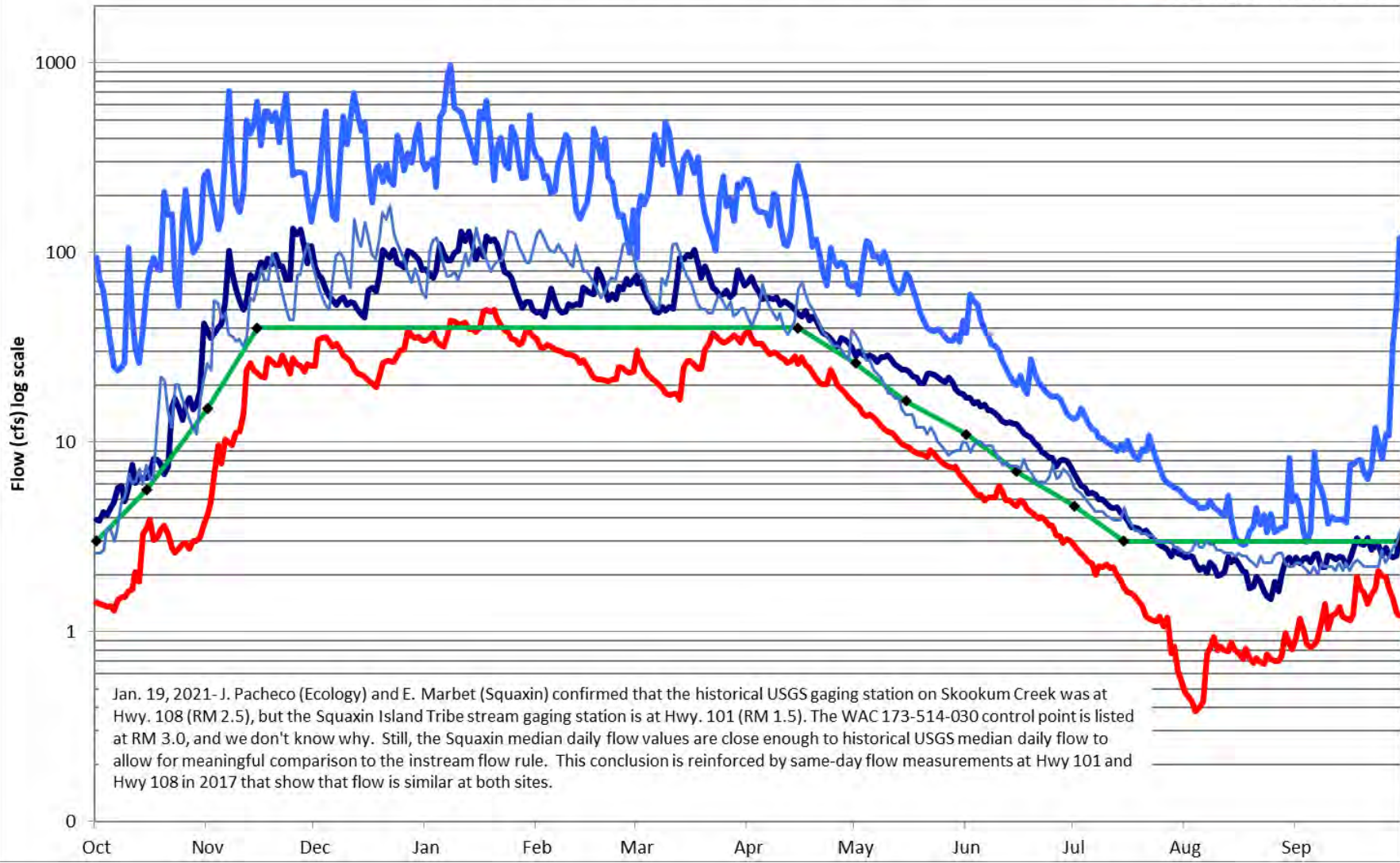
- 10% exceedance
- 50% exceedance
- 90% exceedance
- Instream Flow RM 0.14



Lat 47.125955  
Long -123.10012

### SKOOKUM CREEK AT HWY 101 Flow exceedance Probability Hydrograph RM 1.5; Period of Record: 2005 - 2018

- 10% exceedance
- 50% exceedance
- 90% exceedance
- ◆ Instream Flow RM 3.0
- 50% exceedance at RM 2.5



Jan. 19, 2021- J. Pacheco (Ecology) and E. Marbet (Squaxin) confirmed that the historical USGS gaging station on Skookum Creek was at Hwy. 108 (RM 2.5), but the Squaxin Island Tribe stream gaging station is at Hwy. 101 (RM 1.5). The WAC 173-514-030 control point is listed at RM 3.0, and we don't know why. Still, the Squaxin median daily flow values are close enough to historical USGS median daily flow to allow for meaningful comparison to the instream flow rule. This conclusion is reinforced by same-day flow measurements at Hwy 101 and Hwy 108 in 2017 that show that flow is similar at both sites.