

From: [Hopkins, Scott](#)
To: "[Ashley Rawhouser](#)"; "[Breean Zimmerman](#)"; [Buehn, Scott](#); "[Carl Merkle](#)"; [Clement, Marcie](#); "[David Bowen](#)"; "[Emily Johnson](#)"; "[Graham Simon](#)"; "[Hugh Anthony](#)"; "[Jim Pacheco](#)"; "[Justin Yeager](#)"; "[Kari Grover Wier](#)"; "[M. Cooney](#)"; "[Mark Peterschmidt](#)"; [Osborn, Jeff](#); "[Phil Archibald](#)"; "[Richard Uhlhorn](#)"; [Smith, Michelle](#); "[Steve Lewis](#)"; "[Thomas O'Keefe](#)"; [Towey, Bill](#); "[Travis Maitland](#)"; [Underwood, Alene](#); [Von Reis, Charles](#); [Willard, Catherine](#); "[Chuck Brushwood](#)"; "[Mayfield, Mariah - FS](#)"; [Whiteman, Martha](#); [Sousa, Haley \(contractor - Peer Tech\)](#); "[Kevin Wright](#)"; "[Esh, Nathan](#)"; "[randi_riggs@fws.gov](#)"; [Wasniewski, John](#); "[Pruit, Katie \(RCO\)](#)"; "[Layton, Ryan \(PARKS\)](#)"; "[warp@yakamafish-nsn.gov](#)"; "[bgoedde@cityofchelan.us](#)"; "[Mjackson@cityofchelan.us](#)"; "[jamesurness@hotmail.com](#)"
Cc: [West, Todd](#); "[Joseph Miller](#)"; "[Pradeep Mugunthan](#)"
Subject: Chelan River Temperature Monitoring Data - 2019 4th Quarter Report
Date: Friday, January 24, 2020 3:58:49 PM
Attachments: [2019 Chelan River Daily Average Temperature Data 4th Quarterly Report.pdf](#)
[2019 Chelan River Hourly Temperature Data 4th Quarterly Report.pdf](#)

PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY
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To: Department of Ecology
Water Quality Program
Central Regional Office

Chelan River Fishery Forum:
Washington Department of Ecology
Washington Department of Fish and Wildlife
United States Forest Service
National Park Service
United States Fish and Wildlife Service
National Marine Fisheries Service
CCT (Colville)
YN (Yakama)
CTUIR (Umatilla tribe)
Lake Chelan Sportsman Association
United States Geological Survey
Washington State Parks and Recreation Commission
Washington State Recreation and Conservation Office
City of Chelan
Manson Parks and Recreation Department
Lake Chelan Recreation Association
American Whitewater

From: Scott Hopkins, Fisheries Biologist II
Public Utility District No. 1 of Chelan County (Chelan PUD)
scott.hopkins@chelanpud.org
(509)661-4763

Re: Lake Chelan Hydroelectric Project No. 637 (Project)
Appendix D 401 Water Quality Certification Condition V.C.i)
Water Temperature Data Reports: 4th Quarter

Dear Ecology Water Quality Program, Chelan River Fishery Forum, and Other Parties:

Water temperature monitoring data for the 4th Quarter 2019 are provided in the attached files. This information will be posted to the Chelan County PUD external website under "River Flows, Water Temperatures and Total Dissolved Gas" (link below).

<https://www.chelanpud.org/parks-and-recreation/river-flows-and-water-temperatures>

Data during times of maintenance, calibration, or other miscellaneous events have been denoted with "NA" to designate these periods when data was either unavailable or inaccurate. Noteworthy events labeled with "NA" are explained below.

- Upon reviewing the data, a timeframe of potentially biased data was observed on the End of Reach 3 logger from 17 October through 4 November. This data trends higher than all other loggers both upstream and downstream. The data has been included for this report until the logger can be calibrated and tested to see if a correction is needed. This correction would be included in the annual report if warranted.

Please feel free to call or email any questions or comments.

Scott Hopkins

Fisheries Biologist

Chelan County PUD

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