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Subject: Chelan River Temperature Monitoring Data - 2016 4th Quarterly Data Report
Date: Tuesday, January 31, 2017 12:19:52 PM
Attachments: [2016 Chelan River Daily Average Temperature Data 4th Quarterly Report.pdf](#)
[2016 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: Steven Hays, Fish & Wildlife Senior Advisor
Public Utility District No. 1 of Chelan County (Chelan PUD)
steve.hays@chelanpud.org
(509)661-4181

Re: Lake Chelan Hydroelectric Project No. 637 (Project)
Appendix D 401 Water Quality Certification Condition
V.C.i)
Water Temperature Data Reports: 2016 Quarter 4

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

Water temperature monitoring data for the 4th quarter 2016 (October -
December) are provided in the attached files. Please note that only
data from the automated monitoring at the Low Level Outlet and in the
tailrace are complete. Data from the temperature loggers will be
reported when they can be retrieved from the monitoring sites after
the snow and ice melts. This information will be posted to the Lake
Chelan Implementation web page under resource documents.

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

Steven Hays

Fish and Wildlife Senior Advisor

steve.hays@chelanpud.org

(509) 661-4181

2016 Chelan River Daily Average Temperature - 4th Quarterly Report

Date	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of Reach 4 -Logger- (Deg. C)	End of Reach 4 -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
10/1/2016	18.1	17.8	17.5	17.3	17.2	17.2	18.1	18.2
10/2/2016	17.7	17.4	16.9	16.6	16.6	16.6	17.8	17.8
10/3/2016	17.5	17.1	15.9	15.7	15.7	16.4	17.5	17.6
10/4/2016	17.3					16.4	17.4	
10/5/2016	17.2					15.8	17.2	
10/6/2016	16.9						17.0	
10/7/2016	16.7						16.8	
10/8/2016	16.5						16.5	
10/9/2016	16.3						16.4	
10/10/2016	16.1						16.2	
10/11/2016	15.7						15.8	
10/12/2016	15.5						15.6	
10/13/2016	15.4						15.5	
10/14/2016	15.3						15.4	
10/15/2016	15.2						15.3	
10/16/2016	15.0						15.0	
10/17/2016	15.0						15.1	
10/18/2016	14.9						15.0	
10/19/2016	14.8						14.9	
10/20/2016	14.8						14.8	
10/21/2016	14.5						14.6	
10/22/2016	14.5						14.6	
10/23/2016	14.5						14.6	
10/24/2016	14.5						14.6	
10/25/2016	14.5						14.6	
10/26/2016	14.4						14.5	
10/27/2016	14.3						14.4	
10/28/2016	14.2						14.3	
10/29/2016	14.1						14.2	
10/30/2016	13.9						14.0	
10/31/2016	13.8						13.9	
11/1/2016	13.6						13.8	
11/2/2016	13.7						13.9	
11/3/2016	13.7						13.9	
11/4/2016	13.7						13.9	
11/5/2016	13.6						13.8	
11/6/2016	13.5						13.7	
11/7/2016	13.5						13.6	
11/8/2016	13.4						13.6	
11/9/2016	13.4						13.6	
11/10/2016	13.4						13.6	
11/11/2016	13.3						13.5	
11/12/2016	13.3						13.5	
11/13/2016	13.1						13.3	
11/14/2016	12.9						13.1	
11/15/2016	12.8						12.9	
11/16/2016	12.6						12.7	

11/17/2016	12.2					12.4
11/18/2016	12.0					12.1
11/19/2016	11.9					12.0
11/20/2016	11.7					11.9
11/21/2016	11.7					11.9
11/22/2016	11.8					11.9
11/23/2016	11.6					11.8
11/24/2016	11.4					11.6
11/25/2016	11.3					11.5
11/26/2016	11.4					11.5
11/27/2016	11.2					11.4
11/28/2016	10.9					11.1
11/29/2016	10.7					10.9
11/30/2016	10.6					10.7
12/1/2016	10.5					10.6
12/2/2016	10.3					10.3
12/3/2016	10.0					10.1
12/4/2016	9.8					9.9
12/5/2016	9.5					9.5
12/6/2016	9.3					9.3
12/7/2016	8.7					8.6
12/8/2016	8.5					8.4
12/9/2016	7.9					7.8
12/10/2016	7.8					7.8
12/11/2016	7.5					7.5
12/12/2016	7.5					7.5
12/13/2016	7.3					7.3
12/14/2016	6.8					6.7
12/15/2016	6.6					6.6
12/16/2016	6.3					6.1
12/17/2016	5.6					5.5
12/18/2016	5.6					5.5
12/19/2016	5.7					5.7
12/20/2016	5.8					5.8
12/21/2016	6.2					6.1
12/22/2016	6.3					6.3
12/23/2016	6.3					6.4
12/24/2016	6.2					6.2
12/25/2016	6.0					5.9
12/26/2016	5.6					5.6
12/27/2016	5.5					5.5
12/28/2016	5.4					5.4
12/29/2016	5.4					5.4
12/30/2016	5.6					5.6
12/31/2016	5.4					5.4

2016 Chelan River Hourly Temperature - 4th Quarterly Report

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of Reach 4 -Logger- (Deg. C)	End of Reach 4 -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
10/1/2016	1	18.4	18.2	17.5	17.6	17.6	17.6	18.4	18.5
10/1/2016	2	18.3	18.1	17.3	17.3	17.3	17.3	18.3	18.4
10/1/2016	3	18.3	18.0	17.2	17.1	17.1	17.1	18.3	18.4
10/1/2016	4	18.2	18.0	17.0	16.9	16.8	16.8	18.3	18.3
10/1/2016	5	18.2	17.9	16.8	16.7	16.7	16.6	18.2	18.3
10/1/2016	6	18.1	17.8	16.6	16.6	16.6	16.5	18.2	18.2
10/1/2016	7	18.1	17.7	16.4	16.5	16.5	16.4	18.1	18.1
10/1/2016	8	18.0	17.7	16.3	16.4	16.4	16.3	18.1	18.1
10/1/2016	9	18.0	17.7	16.5	16.3	16.3	16.2	18.1	18.1
10/1/2016	10	17.9	17.7	17.1	16.3	16.3	16.4	18.1	18.0
10/1/2016	11	17.9	17.8	17.6	16.3	16.3	16.5	18.1	18.1
10/1/2016	12	18.0	17.8	18.2	16.5	16.4	16.7	18.1	18.1
10/1/2016	13	18.0	17.8	18.9	16.9	16.8	17.0	18.1	18.1
10/1/2016	14	18.0	17.9	19.2	17.4	17.3	17.3	18.1	18.2
10/1/2016	15	18.1	18.0	19.3	18.1	17.9	17.7	18.1	18.2
10/1/2016	16	18.1	18.0	19.2	18.5	18.4	18.2	18.1	18.2
10/1/2016	17	18.1	17.9	18.8	18.7	18.6	18.5	18.1	18.2
10/1/2016	18	18.1	17.9	18.2	18.6	18.5	18.4	18.1	18.2
10/1/2016	19	18.1	17.8	17.8	18.4	18.3	18.2	18.1	18.2
10/1/2016	20	18.0	17.8	17.4	18.2	18.1	18.1	18.1	18.1
10/1/2016	21	18.0	17.7	17.1	17.7	17.8	17.8	18.0	18.1
10/1/2016	22	18.0	17.7	16.8	17.4	17.4	17.4	18.0	18.1
10/1/2016	23	17.9	17.7	16.6	17.1	17.1	17.1	18.0	18.0
10/1/2016	24	17.9	17.6	16.5	16.8	16.8	16.8	18.0	18.0
10/2/2016	1	17.8	17.5	16.3	16.5	16.5	16.5	17.9	18.0
10/2/2016	2	17.8	17.5	16.2	16.3	16.3	16.3	17.9	17.9
10/2/2016	3	17.8	17.4	16.1	16.2	16.1	16.1	17.9	17.9
10/2/2016	4	17.7	17.4	16.0	16.0	16.0	15.9	17.8	17.8
10/2/2016	5	17.7	17.4	16.0	15.9	15.9	15.8	17.8	17.8
10/2/2016	6	17.7	17.3	16.0	15.8	15.8	15.7	17.8	17.8
10/2/2016	7	17.6	17.3	15.9	15.7	15.7	15.7	17.7	17.7
10/2/2016	8	17.6	17.3	15.9	15.7	15.7	15.6	17.7	17.7
10/2/2016	9	17.6	17.3	16.2	15.7	15.7	15.6	17.7	17.7
10/2/2016	10	17.5	17.2	16.3	15.7	15.7	15.7	17.7	17.7
10/2/2016	11	17.5	17.3	16.9	15.9	15.9	16.0	17.7	17.7
10/2/2016	12	17.6	17.4	17.4	16.1	16.1	16.2	17.7	17.7
10/2/2016	13	17.6	17.5	18.1	16.4	16.3	16.4	17.7	17.7
10/2/2016	14	17.6	17.5	18.4	16.8	16.7	16.7	17.7	17.8
10/2/2016	15	17.7	17.6	18.7	17.4	17.3	17.2	17.8	17.8
10/2/2016	16	17.7	17.6	18.5	17.8	17.7	17.6	17.8	17.9
10/2/2016	17	17.7	17.5	18.2	18.1	18.0	17.9	17.8	17.9
10/2/2016	18	17.7	17.5	17.8	18.2	18.1	18.0	17.8	17.9
10/2/2016	19	17.7	17.5	17.4	18.0	18.0	17.9	17.8	17.9
10/2/2016	20	17.7	17.5	17.0	17.7	17.7	17.7	17.8	17.9
10/2/2016	21	17.7	17.5	16.7	17.4	17.4	17.4	17.8	17.8
10/2/2016	22	17.7	17.4	16.4	17.0	17.1	17.1	17.8	17.8
10/2/2016	23	17.7	17.3	16.2	16.7	16.7	16.8	17.8	17.8
10/2/2016	24	17.7	17.3	16.1	16.4	16.4	16.5	17.8	17.8
10/3/2016	1	17.6	17.3	16.0	16.2	16.2	16.2	17.8	17.7

10/3/2016	2	17.6	17.2	15.9	16.0	16.0	16.0	17.7	17.7
10/3/2016	3	17.6	17.2	15.9	15.8	15.8	15.7	17.7	17.7
10/3/2016	4	17.5	17.2	15.7	15.7	15.7	15.6	17.7	17.7
10/3/2016	5	17.5	17.1	15.7	15.6	15.6	15.5	17.6	17.6
10/3/2016	6	17.5	17.1	15.6	15.5	15.5	15.4	17.6	17.6
10/3/2016	7	17.4	17.1	15.5	15.4	15.4	15.3	17.5	17.5
10/3/2016	8	17.4	17.0	15.5	15.3	15.3	15.2	17.5	17.5
10/3/2016	9	17.4	17.0	15.7	15.4	15.3	15.2	17.5	17.5
10/3/2016	10	17.3	17.1	16.2	15.4	15.4	15.4	17.5	17.4
10/3/2016	11	17.3	17.1	16.8	15.5	15.4	15.6	17.5	17.4
10/3/2016	12	17.4			15.7	15.6	15.8	17.5	17.5
10/3/2016	13	17.4			16.2	16.0	16.2	17.5	17.6
10/3/2016	14	17.4			16.7	16.6	16.5	17.5	17.6
10/3/2016	15	17.5					17.0	17.5	
10/3/2016	16	17.5					17.6	17.5	
10/3/2016	17	17.5					18.0	17.5	
10/3/2016	18	17.5					17.9	17.5	
10/3/2016	19	17.5					17.8	17.5	
10/3/2016	20	17.5					17.6	17.5	
10/3/2016	21	17.5					17.3	17.5	
10/3/2016	22	17.5					17.0	17.5	
10/3/2016	23	17.5					16.7	17.5	
10/3/2016	24	17.5					16.4	17.5	
10/4/2016	1	17.4					16.2	17.5	
10/4/2016	2	17.4					16.1	17.5	
10/4/2016	3	17.4					16.0	17.4	
10/4/2016	4	17.4					15.8	17.4	
10/4/2016	5	17.3					15.8	17.4	
10/4/2016	6	17.3					15.7	17.4	
10/4/2016	7	17.3					15.6	17.3	
10/4/2016	8	17.2					15.6	17.3	
10/4/2016	9	17.2					15.6	17.3	
10/4/2016	10	17.2					15.6	17.3	
10/4/2016	11	17.2					15.7	17.3	
10/4/2016	12	17.2					16.0	17.3	
10/4/2016	13	17.2					16.2	17.3	
10/4/2016	14	17.2					16.4	17.3	
10/4/2016	15	17.3					16.7	17.3	
10/4/2016	16	17.3					17.1	17.4	
10/4/2016	17	17.3					17.5	17.4	
10/4/2016	18	17.3					17.6	17.4	
10/4/2016	19	17.3					17.5	17.4	
10/4/2016	20	17.3					17.3	17.4	
10/4/2016	21	17.3					17.0	17.4	
10/4/2016	22	17.3					16.8	17.4	
10/4/2016	23	17.3					16.6	17.4	
10/4/2016	24	17.3					16.3	17.4	
10/5/2016	1	17.3					16.2	17.3	
10/5/2016	2	17.2					16.0	17.3	
10/5/2016	3	17.2					15.9	17.3	
10/5/2016	4	17.2					15.8	17.3	
10/5/2016	5	17.2					15.7	17.3	
10/5/2016	6	17.1					15.7	17.2	
10/5/2016	7	17.1					15.6	17.2	

10/5/2016	8	17.1					15.5	17.2
10/5/2016	9	17.1					15.5	17.2
10/5/2016	10	17.1						17.2
10/5/2016	11	17.1						17.2
10/5/2016	12	17.1						17.2
10/5/2016	13	17.1						17.2
10/5/2016	14	17.1						17.2
10/5/2016	15	17.2						17.2
10/5/2016	16	17.2						17.2
10/5/2016	17	17.2						17.2
10/5/2016	18	17.2						17.2
10/5/2016	19	17.2						17.2
10/5/2016	20	17.2						17.2
10/5/2016	21	17.2						17.2
10/5/2016	22	17.1						17.2
10/5/2016	23	17.1						17.2
10/5/2016	24	17.1						17.2
10/6/2016	1	17.1						17.2
10/6/2016	2	17.1						17.1
10/6/2016	3	17.0						17.1
10/6/2016	4	17.0						17.1
10/6/2016	5	17.0						17.0
10/6/2016	6	16.9						17.0
10/6/2016	7	16.9						17.0
10/6/2016	8	16.9						16.9
10/6/2016	9	16.8						16.9
10/6/2016	10	16.8						16.9
10/6/2016	11	16.8						16.9
10/6/2016	12	16.8						16.9
10/6/2016	13	16.8						16.9
10/6/2016	14	16.9						16.9
10/6/2016	15	16.9						16.9
10/6/2016	16	16.9						16.9
10/6/2016	17	16.9						16.9
10/6/2016	18	16.9						16.9
10/6/2016	19	16.9						16.9
10/6/2016	20	16.9						16.9
10/6/2016	21	16.9						16.9
10/6/2016	22	16.9						17.0
10/6/2016	23	16.9						17.0
10/6/2016	24	16.9						17.0
10/7/2016	1	16.9						17.0
10/7/2016	2	16.9						16.9
10/7/2016	3	16.9						16.9
10/7/2016	4	16.8						16.9
10/7/2016	5	16.8						16.9
10/7/2016	6	16.8						16.9
10/7/2016	7	16.7						16.8
10/7/2016	8	16.7						16.8
10/7/2016	9	16.7						16.8
10/7/2016	10	16.7						16.8
10/7/2016	11	16.7						16.8
10/7/2016	12	16.7						16.8
10/7/2016	13	16.7						16.8

10/7/2016	14	16.8						16.8
10/7/2016	15	16.8						16.8
10/7/2016	16	16.8						16.8
10/7/2016	17	16.8						16.7
10/7/2016	18	16.8						16.7
10/7/2016	19	16.7						16.7
10/7/2016	20	16.7						16.7
10/7/2016	21	16.6						16.7
10/7/2016	22	16.6						16.6
10/7/2016	23	16.6						16.6
10/7/2016	24	16.6						16.6
10/8/2016	1	16.5						16.6
10/8/2016	2	16.5						16.5
10/8/2016	3	16.5						16.5
10/8/2016	4	16.5						16.5
10/8/2016	5	16.4						16.5
10/8/2016	6	16.4						16.5
10/8/2016	7	16.4						16.4
10/8/2016	8	16.4						16.4
10/8/2016	9	16.4						16.4
10/8/2016	10	16.4						16.5
10/8/2016	11	16.4						16.5
10/8/2016	12	16.4						16.5
10/8/2016	13	16.4						16.5
10/8/2016	14	16.5						16.5
10/8/2016	15	16.5						16.6
10/8/2016	16	16.6						16.6
10/8/2016	17	16.6						16.6
10/8/2016	18	16.6						16.6
10/8/2016	19	16.6						16.6
10/8/2016	20	16.6						16.6
10/8/2016	21	16.6						16.6
10/8/2016	22	16.6						16.6
10/8/2016	23	16.5						16.6
10/8/2016	24	16.5						16.6
10/9/2016	1	16.5						16.5
10/9/2016	2	16.5						16.5
10/9/2016	3	16.4						16.5
10/9/2016	4	16.4						16.5
10/9/2016	5	16.4						16.5
10/9/2016	6	16.4						16.4
10/9/2016	7	16.4						16.4
10/9/2016	8	16.3						16.4
10/9/2016	9	16.3						16.4
10/9/2016	10	16.3						16.4
10/9/2016	11	16.3						16.4
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12/25/2016	13	6.0						5.9
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12/25/2016	17	5.9						5.9
12/25/2016	18	5.9						5.9
12/25/2016	19	5.9						5.9
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12/25/2016	23	5.8						5.8
12/25/2016	24	5.8						5.8
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12/26/2016	18	5.5						5.5
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12/29/2016	9	5.3						5.3
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12/31/2016	22	5.3						5.4
12/31/2016	23	5.3						5.4

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