

Kate Taylor

From: Scott Hopkins
Sent: Tuesday, August 29, 2023 11:00 AM
To: 'Josh Bell'; 'Travis Maitland'; 'Verhey, Patrick M (DFW)'; 'Mark Peterschmidt'; 'Breean Zimmerman'; 'damon.roberts@ecy.wa.gov'; 'Jim Pacheco'; 'Kari Grover Wier'; 'Hugh Anthony'; 'Rawhouser, Ashley K'; 'jody.walters@noaa.gov'; 'Justin Yeager'; 'Phil Archibald'; 'fisheries@ctuir.org'; 'Bret Nine'; 'blod@yakamafish-nsn.gov'; 'info@mansonparks.com'; 'bgoedde@cityofchelan.us'; 'wfarris@cityofchelan.us'; Bill Towey; 'Thomas O'Keefe'; 'Nelle, RD'
Cc: Martha Whiteman; Kate Taylor; Laura Clark; Meaghan Connell
Subject: 2023 Chelan River Temperature Data - July Reports
Attachments: 2023 Chelan River Daily Average Temperature Data July Report.pdf; 2023 Chelan River Hourly Temperature Data July Report.pdf

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)
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 III
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: July 2023

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

Water temperature monitoring data for July 2023 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 are explained below.

- There was one hourly reading in the tailrace on July 14 for the 11:00 hour that was erroneous and removed. It was 10.0 degrees off compared to all other loggers.

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



Scott Hopkins
Fisheries Biologist III
Chelan County P.U.D.
P: (509) 661-4763
C: (509) 630-2708

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2023	21.5	21.7	21.6	21.8	21.6	21.7	21.9	21.7
7/2/2023	21.4	21.6	21.5	21.6	21.5	21.6	21.8	21.5
7/3/2023	19.6	19.7	20.3	20.7	20.7	20.7	20.5	20.3
7/4/2023	18.3	18.4	19.1	19.5	19.4	19.5	18.9	18.7
7/5/2023	19.7	19.9	20.1	20.3	20.2	20.3	20.4	20.3
7/6/2023	21.0	21.3	21.2	21.4	21.3	21.4	21.7	21.5
7/7/2023	21.3	21.5	21.9	22.3	22.2	22.3	22.3	22.2
7/8/2023	20.2	20.5	21.0	21.4	21.3	21.4	21.9	21.8
7/9/2023	19.8	20.0	20.5	20.9	20.9	20.9	22.5	22.2
7/10/2023	20.9	21.1	20.8	20.9	20.9	20.9	22.5	22.2
7/11/2023	22.4	22.6	22.4	22.4	22.3	22.4	22.8	22.7
7/12/2023	22.2	22.5	22.5	22.7	22.6	22.7	22.9	22.7
7/13/2023	22.5	22.7	22.8	23.0	22.9	22.9	22.9	22.8
7/14/2023	22.7	22.9	23.1	23.2	23.2	23.2	23.2	23.0
7/15/2023	21.7	22.0	22.6	22.9	22.8	22.9	23.0	22.7
7/16/2023	21.3	21.5	22.0	22.4	22.3	22.4	23.2	23.1
7/17/2023	22.7	22.9	22.0	21.8	21.7	21.7	23.6	23.4
7/18/2023	23.1	23.3	22.8	22.5	22.4	22.4	23.6	23.3
7/19/2023	22.1	22.3	22.9	23.1	22.6	22.7	23.0	22.7
7/20/2023	21.2	21.3	22.4	22.9	22.5	22.6	22.6	22.3
7/21/2023	21.3	21.7	22.4	22.8	22.9	23.0	23.3	23.1
7/22/2023	23.5	23.9	23.2	23.1	23.7	23.7	24.3	24.1
7/23/2023	24.0	24.2	23.9	23.9	23.8	23.9	24.1	24.0
7/24/2023	23.7	23.9	23.0	23.1	23.3	23.2	23.7	23.3
7/25/2023	23.4	23.5	22.1	21.9	22.7	22.6	23.5	23.2
7/26/2023	22.8	22.9	22.5	22.3	22.7	22.7	23.2	22.9
7/27/2023	22.2	22.4	22.3	22.6	22.7	22.7	23.1	22.9
7/28/2023	22.7	22.9	22.6	22.5	22.7	22.7	23.2	23.0
7/29/2023	22.9	23.1	23.0	23.0	23.1	23.1	23.4	23.2
7/30/2023	23.0	23.1	22.3	22.2	22.6	22.5	23.1	23.0
7/31/2023	22.9	23.0	22.5	22.4	22.4	22.4	22.7	22.7

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2023	1	21.2	21.4	20.5	20.7	20.8	20.7	21.9	21.8
7/1/2023	2	21.3	21.6	20.5	20.6	20.6	20.6	21.9	21.7
7/1/2023	3	21.4	21.6	20.4	20.5	20.5	20.5	21.8	21.7
7/1/2023	4	21.4	21.6	20.3	20.4	20.4	20.4	21.8	21.6
7/1/2023	5	21.4	21.5	20.4	20.3	20.3	20.3	21.8	21.6
7/1/2023	6	21.3	21.5	20.5	20.3	20.3	20.2	21.7	21.5
7/1/2023	7	21.2	21.4	20.6	20.4	20.3	20.3	21.7	21.4
7/1/2023	8	21.1	21.4	20.8	20.6	20.4	20.4	21.6	21.4
7/1/2023	9	21.1	21.4	21.1	20.8	20.6	20.7	21.6	21.4
7/1/2023	10	21.1	21.4	21.7	21.2	20.8	21.0	21.6	21.4
7/1/2023	11	21.1	21.4	22.3	21.7	21.3	21.6	21.7	21.5
7/1/2023	12	21.2	21.5	22.9	22.4	22.0	22.3	21.8	21.5
7/1/2023	13	21.3	21.7	23.2	23.0	22.7	23.0	21.9	21.7
7/1/2023	14	21.5	21.8	23.4	23.5	23.2	23.5	21.9	21.7
7/1/2023	15	21.6	21.9	23.6	23.8	23.5	23.8	22.0	21.9
7/1/2023	16	21.7	22.1	23.5	23.9	23.7	23.9	22.1	22.0
7/1/2023	17	21.7	22.0	23.2	23.8	23.7	23.9	22.2	22.0
7/1/2023	18	21.7	22.1	22.8	23.4	23.4	23.9	22.3	22.1
7/1/2023	19	21.9	22.2	22.4	23.0	22.5	22.6	22.2	22.1
7/1/2023	20	21.9	22.1	21.7	22.6	22.3	22.3	22.2	22.1
7/1/2023	21	21.8	22.1	21.3	22.1	22.2	22.1	22.3	22.1
7/1/2023	22	21.8	22.0	21.0	21.5	21.6	21.6	22.2	22.1
7/1/2023	23	21.7	21.9	20.8	21.1	21.2	21.2	22.1	22.0
7/1/2023	24	21.7	21.8	20.7	20.9	20.9	20.8	22.0	21.9
7/2/2023	1	21.6	21.7	20.7	20.7	20.7	20.7	22.0	21.5
7/2/2023	2	21.5	21.7	20.4	20.5	20.6	20.5	21.9	21.6
7/2/2023	3	21.5	21.6	20.2	20.4	20.4	20.3	21.8	21.5
7/2/2023	4	21.4	21.6	20.2	20.2	20.2	20.2	21.8	21.5
7/2/2023	5	21.3	21.5	20.3	20.1	20.1	20.0	21.7	21.4
7/2/2023	6	21.3	21.4	20.2	20.1	20.0	19.9	21.7	21.4
7/2/2023	7	21.3	21.4	20.3	20.1	20.1	20.0	21.7	21.3
7/2/2023	8	21.2	21.4	20.6	20.3	20.2	20.2	21.7	21.3
7/2/2023	9	21.1	21.4	21.0	20.5	20.2	20.3	21.7	21.2
7/2/2023	10	21.1	21.4	21.6	20.9	20.5	20.7	21.7	21.3
7/2/2023	11	21.1	21.4	22.1	21.4	21.0	21.2	21.7	21.4
7/2/2023	12	21.1	21.4	22.6	22.1	21.7	22.0	21.6	21.4
7/2/2023	13	21.2	21.5	23.0	22.8	22.4	22.8	21.7	21.5
7/2/2023	14	21.3	21.6	23.3	23.4	22.9	23.3	21.7	21.6
7/2/2023	15	21.3	21.6	23.4	23.7	23.3	23.7	21.8	21.6
7/2/2023	16	21.4	21.7	23.2	23.9	23.5	23.8	21.8	21.7
7/2/2023	17	21.4	21.7	22.9	23.6	23.5	23.8	21.8	21.7
7/2/2023	18	21.4	21.7	22.5	23.3	23.3	23.4	21.9	21.7
7/2/2023	19	21.5	21.7	22.0	22.8	22.8	22.9	21.9	21.7
7/2/2023	20	21.5	21.7	21.5	22.4	22.4	22.4	22.0	21.7
7/2/2023	21	21.5	21.7	21.1	21.9	22.0	22.0	21.9	21.7

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/2/2023	22	21.5	21.7	20.9	21.4	21.5	21.5	21.8	21.7
7/2/2023	23	21.5	21.7	20.8	21.1	21.2	21.1	21.7	21.7
7/2/2023	24	21.4	21.5	20.7	20.8	20.9	20.8	21.6	21.6
7/3/2023	1	21.1	21.1	20.6	20.7	20.7	20.7	21.5	21.5
7/3/2023	2	20.7	20.7	20.5	20.6	20.6	20.5	21.4	21.2
7/3/2023	3	20.3	20.3	20.2	20.4	20.4	20.4	21.3	21.0
7/3/2023	4	20.1	20.2	19.9	20.3	20.3	20.2	21.2	20.8
7/3/2023	5	20.0	20.1	19.5	20.0	20.1	20.0	21.1	20.7
7/3/2023	6	19.9	20.0	19.3	19.7	19.8	19.7	21.1	20.6
7/3/2023	7	19.9	20.0	19.3	19.4	19.5	19.4	21.0	20.7
7/3/2023	8	19.8	20.0	19.5	19.5	19.4	19.4	20.9	20.7
7/3/2023	9	19.7	19.8	19.8	19.7	19.4	19.5	20.8	20.6
7/3/2023	10	19.7	19.9	20.4	20.0	19.7	19.8	20.7	20.5
7/3/2023	11	19.7	19.8	21.0	20.6	20.2	20.4	20.6	20.6
7/3/2023	12	19.6	19.7	21.5	21.2	20.8	21.1	20.6	20.5
7/3/2023	13	19.5	19.6	21.8	21.8	21.4	21.7	20.5	20.4
7/3/2023	14	19.4	19.7	22.0	22.3	21.9	22.3	20.4	20.3
7/3/2023	15	19.5	19.6	22.0	22.7	22.3	22.7	20.3	20.3
7/3/2023	16	19.4	19.6	21.8	22.8	22.5	22.8	20.3	20.2
7/3/2023	17	19.3	19.5	21.6	22.5	22.5	22.7	20.2	20.1
7/3/2023	18	19.3	19.4	21.1	22.2	22.2	22.4	20.1	20.0
7/3/2023	19	19.1	19.3	20.5	21.7	21.7	21.8	20.0	19.8
7/3/2023	20	19.0	19.1	19.9	21.2	21.2	21.2	19.9	19.7
7/3/2023	21	18.9	19.0	19.3	20.5	20.7	20.7	19.7	19.6
7/3/2023	22	18.8	18.9	18.9	19.9	20.0	20.0	19.6	19.4
7/3/2023	23	18.8	18.8	18.7	19.3	19.5	19.4	19.5	19.2
7/3/2023	24	18.7	18.8	18.5	19.0	19.1	19.0	19.3	19.0
7/4/2023	1	18.6	18.7	18.4	18.8	18.9	18.8	19.2	18.9
7/4/2023	2	18.5	18.6	18.4	18.7	18.7	18.7	19.0	18.8
7/4/2023	3	18.4	18.4	18.2	18.5	18.6	18.5	18.9	18.7
7/4/2023	4	18.3	18.2	18.1	18.4	18.5	18.4	18.8	18.6
7/4/2023	5	18.1	18.1	17.9	18.3	18.3	18.2	18.7	18.4
7/4/2023	6	18.0	18.0	17.7	18.1	18.2	18.1	18.6	18.3
7/4/2023	7	17.9	18.0	17.7	18.0	18.0	18.0	18.5	18.2
7/4/2023	8	17.9	18.0	17.9	18.0	17.9	18.0	18.5	18.1
7/4/2023	9	17.9	18.0	18.3	18.2	18.0	18.1	18.4	18.1
7/4/2023	10	18.0	18.1	18.9	18.6	18.2	18.4	18.3	18.2
7/4/2023	11	18.2	18.4	19.6	19.2	18.8	19.0	18.3	18.3
7/4/2023	12	18.3	18.5	20.2	19.9	19.5	19.8	18.4	18.4
7/4/2023	13	18.3	18.5	20.6	20.6	20.2	20.5	18.6	18.6
7/4/2023	14	18.2	18.4	20.9	21.1	20.7	21.1	18.7	18.7
7/4/2023	15	18.3	18.6	20.9	21.5	21.2	21.5	18.8	18.8
7/4/2023	16	18.3	18.5	20.8	21.7	21.4	21.7	18.9	19.0
7/4/2023	17	18.4	18.6	20.5	21.5	21.5	21.7	19.1	19.0
7/4/2023	18	18.5	18.6	20.1	21.2	21.2	21.4	19.2	19.1

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/4/2023	19	18.5	18.6	19.6	20.8	20.8	20.9	19.3	19.1
7/4/2023	20	18.5	18.6	19.2	20.3	20.4	20.5	19.3	19.0
7/4/2023	21	18.4	18.6	18.9	19.8	20.0	20.0	19.3	19.1
7/4/2023	22	18.6	18.7	18.6	19.4	19.5	19.5	19.4	19.2
7/4/2023	23	18.6	18.7	18.4	19.1	19.2	19.1	19.4	19.3
7/4/2023	24	18.7	18.9	18.4	18.8	18.9	18.8	19.4	19.3
7/5/2023	1	19.0	19.2	18.4	18.6	18.7	18.7	19.5	19.2
7/5/2023	2	19.0	19.1	18.4	18.6	18.6	18.5	19.5	19.3
7/5/2023	3	19.1	19.3	18.5	18.5	18.5	18.5	19.6	19.3
7/5/2023	4	19.2	19.3	18.5	18.5	18.5	18.4	19.7	19.4
7/5/2023	5	19.3	19.4	18.5	18.5	18.5	18.5	19.8	19.6
7/5/2023	6	19.4	19.6	18.5	18.5	18.4	18.4	19.9	19.7
7/5/2023	7	19.6	19.8	18.6	18.5	18.4	18.4	20.0	19.8
7/5/2023	8	19.7	19.9	19.1	18.7	18.5	18.6	20.1	19.9
7/5/2023	9	19.8	20.1	19.7	19.1	18.7	18.9	20.2	20.0
7/5/2023	10	19.9	20.2	20.4	19.6	19.2	19.4	20.3	20.2
7/5/2023	11	20.1	20.4	21.1	20.5	20.0	20.3	20.4	20.3
7/5/2023	12	20.2	20.5	21.7	21.3	20.8	21.2	20.4	20.5
7/5/2023	13	20.2	20.5	21.8	21.8	21.4	21.7	20.5	20.6
7/5/2023	14	20.3	20.4	21.8	22.3	21.9	22.3	20.7	20.7
7/5/2023	15	20.1	20.2	21.7	22.3	22.1	22.4	20.9	20.7
7/5/2023	16	20.0	20.3	22.0	22.5	22.2	22.6	20.9	20.8
7/5/2023	17	20.1	20.3	21.9	22.3	22.2	22.5	20.9	20.9
7/5/2023	18	20.0	20.3	21.7	22.4	22.3	22.5	20.9	20.8
7/5/2023	19	19.9	20.0	21.1	22.1	22.1	22.1	20.9	20.9
7/5/2023	20	19.7	19.9	20.4	21.6	21.7	21.7	20.9	20.8
7/5/2023	21	19.6	20.0	20.0	21.1	21.2	21.2	20.9	20.8
7/5/2023	22	19.4	19.7	19.7	20.5	20.6	20.6	20.9	20.8
7/5/2023	23	19.2	19.5	19.5	20.1	20.2	20.2	20.9	20.6
7/5/2023	24	19.4	19.7	19.4	19.8	19.9	19.9	20.9	20.4
7/6/2023	1	19.3	19.5	19.2	19.7	19.7	19.7	20.9	20.5
7/6/2023	2	19.5	19.8	19.2	19.6	19.6	19.6	20.9	20.5
7/6/2023	3	19.7	20.1	19.1	19.4	19.4	19.4	20.8	20.6
7/6/2023	4	20.1	20.4	19.1	19.3	19.3	19.3	20.8	20.7
7/6/2023	5	20.3	20.6	19.2	19.2	19.2	19.2	20.9	20.9
7/6/2023	6	20.5	20.7	19.4	19.2	19.2	19.2	21.0	21.0
7/6/2023	7	20.7	21.0	19.8	19.3	19.2	19.2	21.1	21.1
7/6/2023	8	20.8	21.1	20.2	19.7	19.5	19.5	21.2	21.2
7/6/2023	9	20.8	21.0	20.5	20.0	19.7	19.8	21.3	21.2
7/6/2023	10	20.6	21.0	21.1	20.7	20.2	20.5	21.4	21.2
7/6/2023	11	21.0	21.3	22.0	21.2	20.8	21.1	21.4	21.3
7/6/2023	12	21.0	21.4	22.5	22.0	21.5	21.8	21.6	21.5
7/6/2023	13	21.2	21.6	23.1	22.8	22.3	22.8	21.7	21.6
7/6/2023	14	21.3	21.7	23.5	23.4	23.0	23.4	21.8	21.8
7/6/2023	15	21.4	21.8	23.4	23.9	23.5	24.0	22.0	21.9

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/6/2023	16	21.5	21.9	23.1	24.2	23.8	24.2	22.1	22.1
7/6/2023	17	21.7	22.0	23.1	23.8	23.8	24.1	22.2	22.3
7/6/2023	18	21.8	22.1	22.8	23.4	23.5	23.6	22.3	22.3
7/6/2023	19	21.8	22.1	22.2	23.1	23.1	23.2	22.4	22.3
7/6/2023	20	21.8	22.0	21.8	22.7	22.8	22.8	22.4	22.3
7/6/2023	21	21.8	22.0	21.6	22.2	22.3	22.3	22.4	22.2
7/6/2023	22	21.7	21.9	21.3	21.8	21.9	21.9	22.4	22.2
7/6/2023	23	21.6	21.7	21.3	21.6	21.6	21.6	22.4	22.2
7/6/2023	24	21.6	21.9	21.2	21.4	21.4	21.4	22.3	22.2
7/7/2023	1	21.6	21.8	21.1	21.3	21.3	21.3	22.3	22.1
7/7/2023	2	21.6	21.8	21.1	21.2	21.2	21.2	22.3	22.1
7/7/2023	3	21.6	21.7	21.0	21.1	21.1	21.1	22.3	22.0
7/7/2023	4	21.5	21.7	21.0	21.0	21.0	21.0	22.2	22.1
7/7/2023	5	21.7	22.0	21.0	21.0	21.0	20.9	22.3	22.0
7/7/2023	6	21.7	21.8	20.9	21.0	20.9	20.9	22.3	22.0
7/7/2023	7	21.8	22.0	21.0	21.0	20.9	20.9	22.3	22.1
7/7/2023	8	21.8	22.1	21.3	21.1	21.0	21.0	22.4	22.2
7/7/2023	9	21.8	21.9	21.8	21.4	21.2	21.3	22.4	22.2
7/7/2023	10	21.6	21.9	22.4	21.8	21.5	21.7	22.4	22.2
7/7/2023	11	21.8	22.2	22.9	22.4	22.1	22.3	22.5	22.3
7/7/2023	12	21.9	22.3	23.3	23.1	22.7	23.1	22.5	22.3
7/7/2023	13	22.0	22.4	23.8	23.7	23.3	23.6	22.5	22.5
7/7/2023	14	22.1	22.4	24.0	24.1	23.7	24.0	22.6	22.6
7/7/2023	15	21.9	22.1	24.2	24.6	24.2	24.6	22.6	22.6
7/7/2023	16	21.4	21.4	24.3	24.8	24.5	24.8	22.6	22.5
7/7/2023	17	21.0	21.2	23.8	24.7	24.6	24.8	22.6	22.3
7/7/2023	18	20.8	20.9	22.8	24.5	24.4	24.5	22.5	22.3
7/7/2023	19	20.5	20.7	21.8	23.7	23.8	23.9	22.4	22.2
7/7/2023	20	20.6	20.5	21.3	22.8	22.9	23.0	22.3	22.1
7/7/2023	21	20.0	20.2	20.8	22.0	22.1	22.1	22.2	21.8
7/7/2023	22	20.1	20.3	20.6	21.4	21.5	21.5	22.1	21.8
7/7/2023	23	20.1	20.5	20.2	20.9	21.1	21.0	22.0	21.7
7/7/2023	24	20.1	20.2	20.0	20.7	20.8	20.7	21.9	21.8
7/8/2023	1	20.0	20.1	19.9	20.4	20.4	20.4	21.9	21.7
7/8/2023	2	19.8	20.0	19.9	20.2	20.2	20.2	21.8	21.6
7/8/2023	3	19.8	20.0	19.7	20.1	20.1	20.1	21.8	21.6
7/8/2023	4	19.8	19.8	19.5	19.9	20.0	19.9	21.7	21.5
7/8/2023	5	19.7	19.8	19.4	19.8	19.8	19.7	21.7	21.5
7/8/2023	6	19.7	19.8	19.3	19.7	19.7	19.6	21.6	21.5
7/8/2023	7	19.8	20.0	19.4	19.6	19.6	19.6	21.1	20.9
7/8/2023	8	19.9	20.3	19.7	19.7	19.5	19.6	21.0	21.2
7/8/2023	9	20.0	20.2	20.2	19.9	19.6	19.7	21.2	21.2
7/8/2023	10	19.8	20.1	20.9	20.3	20.0	20.2	21.3	21.2
7/8/2023	11	19.8	20.1	21.6	21.0	20.6	20.8	21.4	21.1
7/8/2023	12	20.0	20.4	22.1	21.8	21.4	21.7	21.5	21.4

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/8/2023	13	19.9	20.5	22.4	22.6	22.2	22.6	21.7	21.6
7/8/2023	14	20.2	20.6	22.8	23.1	22.7	23.1	21.8	21.6
7/8/2023	15	20.5	20.7	22.8	23.4	23.1	23.5	22.0	22.1
7/8/2023	16	20.5	21.1	22.9	23.7	23.4	23.7	22.2	22.2
7/8/2023	17	20.9	21.5	22.8	23.5	23.4	23.7	22.4	22.3
7/8/2023	18	20.8	21.2	22.5	23.4	23.4	23.6	22.6	22.5
7/8/2023	19	20.8	20.9	22.3	23.0	23.1	23.2	22.7	22.6
7/8/2023	20	20.7	21.1	21.7	22.7	22.7	22.8	22.7	22.4
7/8/2023	21	20.8	21.2	21.2	22.3	22.4	22.4	22.6	22.3
7/8/2023	22	20.6	21.1	20.8	21.8	21.9	22.0	22.6	22.3
7/8/2023	23	20.6	21.0	20.7	21.3	21.4	21.5	22.5	22.1
7/8/2023	24	20.6	20.6	20.5	21.0	21.1	21.1	22.4	22.1
7/9/2023	1	20.4	20.5	20.4	20.8	20.9	20.8	22.4	22.1
7/9/2023	2	20.2	20.3	20.3	20.7	20.7	20.6	22.3	22.0
7/9/2023	3	20.1	20.2	20.1	20.5	20.6	20.5	22.3	21.9
7/9/2023	4	20.0	20.2	19.9	20.4	20.4	20.4	22.2	21.9
7/9/2023	5	19.9	20.1	19.8	20.2	20.2	20.2	22.1	21.9
7/9/2023	6	19.9	20.0	19.7	20.0	20.0	20.0	22.1	21.7
7/9/2023	7	19.8	19.9	19.7	19.9	19.9	19.9	22.3	21.7
7/9/2023	8	19.8	19.9	19.9	20.0	19.9	19.9	22.4	21.7
7/9/2023	9	19.7	19.9	20.3	20.1	19.9	20.0	22.5	21.8
7/9/2023	10	19.6	19.9	20.9	20.5	20.2	20.4	22.6	22.3
7/9/2023	11	19.6	19.9	21.6	21.2	20.8	21.1	22.7	23.1
7/9/2023	12	19.6	19.8	21.8	21.8	21.5	21.7	22.8	23.4
7/9/2023	13	19.6	19.8	21.4	22.2	21.9	22.1	22.9	23.2
7/9/2023	14	19.6	19.8	20.8	22.0	21.9	22.0	22.9	22.7
7/9/2023	15	19.6	19.9	21.2	21.9	21.8	22.1	22.9	22.5
7/9/2023	16	19.7	20.0	21.5	21.8	21.7	22.0	22.9	22.5
7/9/2023	17	19.7	19.9	21.4	21.8	21.8	21.9	22.8	22.5
7/9/2023	18	19.7	19.9	21.0	21.9	21.8	22.0	22.7	22.5
7/9/2023	19	19.8	20.0	20.6	21.6	21.7	21.7	22.6	22.7
7/9/2023	20	19.8	20.0	20.3	21.2	21.3	21.3	22.6	22.4
7/9/2023	21	19.8	20.0	20.0	20.8	20.9	20.9	22.5	22.2
7/9/2023	22	19.8	20.0	19.9	20.5	20.6	20.6	22.4	22.1
7/9/2023	23	19.9	20.1	19.8	20.2	20.3	20.3	22.3	21.8
7/9/2023	24	20.0	20.2	19.7	20.1	20.1	20.1	22.3	21.4
7/10/2023	1	20.1	20.3	19.7	20.0	20.0	20.0	22.2	21.1
7/10/2023	2	20.1	20.4	19.7	19.9	19.9	19.8	22.1	20.8
7/10/2023	3	20.1	20.3	19.7	19.8	19.8	19.8	22.0	19.7
7/10/2023	4	20.0	20.2	19.8	19.8	19.8	19.8	21.9	21.7
7/10/2023	5	19.9	20.1	19.8	19.9	19.8	19.8	21.9	21.8
7/10/2023	6	19.8	20.1	19.8	19.9	19.9	19.9	21.8	21.8
7/10/2023	7	20.2	20.9	19.7	20.0	19.9	19.9	21.9	22.5
7/10/2023	8	21.3	21.5	19.7	19.9	19.9	19.9	22.9	23.0
7/10/2023	9	21.1	21.0	19.9	19.9	19.8	19.9	23.0	22.6

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/10/2023	10	21.2	21.7	20.6	19.9	19.8	19.9	22.8	22.6
7/10/2023	11	21.4	21.8	20.8	20.2	20.0	20.1	22.7	22.4
7/10/2023	12	21.1	21.5	21.7	21.1	20.7	21.0	22.6	22.4
7/10/2023	13	21.0	21.0	22.8	21.7	21.3	21.6	22.6	22.4
7/10/2023	14	20.8	21.1	23.3	22.6	22.2	22.5	22.6	22.3
7/10/2023	15	20.9	21.1	23.0	23.4	23.0	23.3	22.6	22.4
7/10/2023	16	21.1	21.0	22.1	23.4	23.3	23.4	22.6	22.7
7/10/2023	17	20.7	21.0	21.5	22.8	22.9	23.1	22.5	22.2
7/10/2023	18	20.7	20.8	21.2	22.1	22.2	22.3	22.6	22.3
7/10/2023	19	21.1	21.2	21.1	21.5	21.6	21.7	22.6	22.5
7/10/2023	20	21.5	21.7	20.8	21.3	21.4	21.3	22.7	22.6
7/10/2023	21	21.8	22.1	20.7	21.1	21.2	21.2	22.6	22.7
7/10/2023	22	21.8	22.3	20.8	20.9	20.9	20.9	22.6	22.7
7/10/2023	23	21.9	22.1	20.9	20.7	20.8	20.7	22.6	22.5
7/10/2023	24	22.0	22.2	20.9	20.8	20.7	20.7	22.6	22.4
7/11/2023	1	21.7	21.9	20.9	20.8	20.7	20.7	22.6	22.4
7/11/2023	2	21.8	21.9	20.8	20.7	20.7	20.6	22.5	22.3
7/11/2023	3	21.9	22.1	20.7	20.7	20.7	20.6	22.5	22.2
7/11/2023	4	22.0	22.2	20.6	20.6	20.6	20.6	22.5	22.0
7/11/2023	5	22.1	22.3	20.7	20.5	20.5	20.4	22.4	22.0
7/11/2023	6	22.2	22.3	20.8	20.4	20.4	20.3	22.3	22.1
7/11/2023	7	22.2	22.5	20.9	20.5	20.4	20.4	22.4	22.5
7/11/2023	8	22.3	22.5	21.3	20.7	20.6	20.6	22.6	22.6
7/11/2023	9	22.2	22.4	21.7	21.1	20.8	20.9	22.6	22.4
7/11/2023	10	22.1	22.4	22.3	21.6	21.2	21.4	22.6	22.4
7/11/2023	11	22.2	22.5	23.0	22.2	21.8	22.1	22.5	22.5
7/11/2023	12	22.3	22.7	23.5	23.0	22.6	22.9	22.7	22.6
7/11/2023	13	22.4	22.8	24.0	23.7	23.3	23.6	22.8	22.7
7/11/2023	14	22.5	22.9	24.4	24.3	23.9	24.3	22.9	22.8
7/11/2023	15	22.7	23.0	24.5	24.7	24.4	24.7	23.0	23.0
7/11/2023	16	22.8	23.1	24.4	24.9	24.7	25.0	23.0	23.1
7/11/2023	17	22.9	23.2	24.2	24.8	24.8	25.0	23.1	23.1
7/11/2023	18	22.9	23.2	24.0	24.6	24.6	24.8	23.1	23.2
7/11/2023	19	22.9	23.1	23.4	24.1	24.1	24.2	23.2	23.2
7/11/2023	20	22.9	23.1	22.9	23.7	23.8	23.8	23.3	23.2
7/11/2023	21	22.8	23.0	22.4	23.2	23.3	23.3	23.3	23.2
7/11/2023	22	22.7	22.8	22.3	22.8	22.8	22.8	23.3	23.0
7/11/2023	23	22.5	22.7	22.1	22.4	22.5	22.5	23.2	22.9
7/11/2023	24	22.4	22.6	21.9	22.2	22.3	22.3	23.2	22.9
7/12/2023	1	22.3	22.5	21.7	22.0	22.1	22.0	23.1	22.9
7/12/2023	2	22.2	22.3	21.6	21.8	21.9	21.8	23.1	22.9
7/12/2023	3	22.1	22.3	21.5	21.7	21.7	21.7	23.0	22.8
7/12/2023	4	22.1	22.2	21.4	21.5	21.5	21.5	22.9	22.7
7/12/2023	5	22.1	22.2	21.3	21.4	21.4	21.4	22.9	22.5
7/12/2023	6	22.0	22.2	21.3	21.3	21.3	21.3	22.9	22.7

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/12/2023	7	22.0	22.2	21.3	21.3	21.2	21.2	22.8	22.4
7/12/2023	8	22.1	22.3	21.6	21.3	21.2	21.3	22.8	22.4
7/12/2023	9	22.1	22.3	21.8	21.4	21.3	21.3	22.8	22.3
7/12/2023	10	22.0	22.3	22.4	21.9	21.6	21.8	22.8	22.4
7/12/2023	11	22.0	22.3	23.0	22.3	22.0	22.2	22.7	22.5
7/12/2023	12	21.9	22.2	23.6	23.1	22.7	23.0	22.7	22.5
7/12/2023	13	21.9	22.2	23.9	23.8	23.4	23.7	22.7	22.6
7/12/2023	14	22.0	22.3	24.2	24.3	24.0	24.3	22.8	22.7
7/12/2023	15	22.1	22.5	24.2	24.7	24.4	24.7	22.8	22.7
7/12/2023	16	22.2	22.4	24.1	24.8	24.6	24.8	22.9	22.8
7/12/2023	17	22.3	22.6	23.8	24.6	24.5	24.8	22.9	22.9
7/12/2023	18	22.5	22.8	23.4	24.2	24.2	24.4	23.0	23.0
7/12/2023	19	22.6	22.9	22.8	23.7	23.7	23.8	23.1	23.0
7/12/2023	20	22.7	22.9	22.5	23.2	23.3	23.3	23.1	22.9
7/12/2023	21	22.6	22.9	22.2	22.8	22.8	22.8	23.2	23.0
7/12/2023	22	22.7	22.9	22.0	22.4	22.5	22.5	23.2	23.0
7/12/2023	23	22.7	22.9	22.0	22.2	22.2	22.2	23.2	22.9
7/12/2023	24	22.7	22.9	22.0	22.0	22.1	22.0	23.1	22.9
7/13/2023	1	22.7	22.9	21.9	21.9	21.9	21.9	23.1	22.8
7/13/2023	2	22.7	22.8	21.8	21.9	21.8	21.8	23.0	22.8
7/13/2023	3	22.7	22.8	21.7	21.8	21.8	21.7	22.9	22.8
7/13/2023	4	22.6	22.8	21.6	21.7	21.7	21.6	22.9	22.8
7/13/2023	5	22.6	22.8	21.6	21.6	21.6	21.5	22.8	22.7
7/13/2023	6	22.6	22.7	21.6	21.5	21.5	21.4	22.8	22.6
7/13/2023	7	22.5	22.8	21.6	21.5	21.4	21.4	22.8	22.8
7/13/2023	8	22.5	22.7	21.8	21.6	21.5	21.5	22.8	22.8
7/13/2023	9	22.4	22.6	22.3	21.8	21.6	21.7	22.8	22.7
7/13/2023	10	22.4	22.6	22.8	22.2	21.8	22.0	22.8	22.6
7/13/2023	11	22.3	22.6	23.5	22.8	22.4	22.6	22.8	22.6
7/13/2023	12	22.3	22.6	24.0	23.5	23.2	23.4	22.8	22.6
7/13/2023	13	22.3	22.6	24.4	24.2	23.9	24.2	22.8	22.6
7/13/2023	14	22.4	22.6	24.6	24.7	24.4	24.7	22.8	22.7
7/13/2023	15	22.4	22.7	24.7	25.1	25.1	25.1	22.9	22.8
7/13/2023	16	22.5	22.7	24.5	25.1	25.0	25.2	22.9	22.8
7/13/2023	17	22.5	22.7	24.2	24.9	24.9	25.1	23.0	22.9
7/13/2023	18	22.5	22.8	23.8	24.6	24.6	24.8	23.0	22.9
7/13/2023	19	22.6	22.8	23.3	24.1	24.2	24.2	23.1	23.0
7/13/2023	20	22.6	22.8	22.8	23.7	23.8	23.7	23.1	23.0
7/13/2023	21	22.7	22.9	22.5	23.2	23.4	23.3	23.2	23.0
7/13/2023	22	22.6	22.8	22.3	22.8	22.9	22.8	23.2	23.0
7/13/2023	23	22.6	22.8	22.2	22.5	22.6	22.5	23.2	22.8
7/13/2023	24	22.6	22.7	22.0	22.3	22.3	22.2	23.1	22.8
7/14/2023	1	22.6	22.8	21.8	22.1	22.1	22.0	23.1	22.8
7/14/2023	2	22.6	22.8	21.7	21.9	21.9	21.8	23.0	22.8
7/14/2023	3	22.6	22.7	21.7	21.7	21.7	21.7	23.0	22.8

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/14/2023	4	22.6	22.7	21.7	21.6	21.6	21.5	22.9	22.7
7/14/2023	5	22.5	22.7	21.8	21.6	21.6	21.5	22.9	22.6
7/14/2023	6	22.5	22.7	21.7	21.6	21.6	21.5	22.8	22.6
7/14/2023	7	22.5	22.7	21.8	21.7	21.6	21.5	22.9	22.7
7/14/2023	8	22.5	22.7	22.1	21.8	21.7	21.6	23.0	22.7
7/14/2023	9	22.5	22.8	22.5	22.0	21.8	21.8	23.0	22.7
7/14/2023	10	22.5	22.8	23.1	22.4	22.1	22.2	23.3	22.7
7/14/2023	11	22.5	22.8	23.8	23.0	22.7	22.8	NA	22.7
7/14/2023	12	22.5	22.8	24.4	23.8	23.4	23.6	23.0	22.8
7/14/2023	13	22.6	23.0	24.8	24.6	24.2	24.5	23.1	22.9
7/14/2023	14	22.8	23.1	25.0	25.1	24.8	25.1	23.2	23.0
7/14/2023	15	22.7	23.1	25.1	25.5	25.3	25.5	23.2	23.1
7/14/2023	16	22.8	23.2	25.0	25.6	25.4	25.6	23.3	23.2
7/14/2023	17	22.9	23.2	24.7	25.4	25.4	25.6	23.4	23.3
7/14/2023	18	22.9	23.2	24.3	25.1	25.2	25.3	23.5	23.3
7/14/2023	19	22.9	23.2	23.9	24.7	24.7	24.8	23.6	23.4
7/14/2023	20	23.0	23.2	23.4	24.3	24.3	24.3	23.6	23.4
7/14/2023	21	23.0	23.2	22.9	23.7	23.9	23.8	23.5	23.4
7/14/2023	22	22.9	23.1	22.6	23.2	23.4	23.3	23.5	23.4
7/14/2023	23	22.9	23.1	22.5	22.8	22.9	22.8	23.5	23.2
7/14/2023	24	22.9	23.1	22.4	22.6	22.7	22.6	23.4	23.2
7/15/2023	1	22.9	23.1	22.3	22.4	22.5	22.4	23.4	23.0
7/15/2023	2	22.8	23.0	22.3	22.3	22.3	22.2	23.4	22.8
7/15/2023	3	22.8	22.9	22.2	22.2	22.2	22.1	23.3	22.8
7/15/2023	4	22.8	22.9	22.0	22.1	22.1	22.0	23.3	22.7
7/15/2023	5	22.7	22.9	21.9	22.0	22.0	21.9	23.2	22.9
7/15/2023	6	22.7	22.8	21.8	21.9	21.9	21.7	23.1	22.8
7/15/2023	7	22.6	22.7	21.9	21.8	21.8	21.7	23.0	22.9
7/15/2023	8	22.4	22.5	22.2	21.9	21.8	21.7	23.0	22.9
7/15/2023	9	21.9	21.8	22.5	22.1	21.9	21.9	22.9	22.7
7/15/2023	10	21.6	22.0	23.0	22.5	22.2	22.3	22.8	22.4
7/15/2023	11	21.5	21.7	23.4	23.0	22.7	22.9	22.8	22.5
7/15/2023	12	21.5	21.6	23.6	23.7	23.4	23.6	22.8	22.5
7/15/2023	13	21.3	21.7	24.0	24.1	23.9	24.1	22.8	22.5
7/15/2023	14	21.2	21.5	24.2	24.5	24.2	24.5	22.8	22.5
7/15/2023	15	21.1	21.4	24.2	24.7	24.5	24.8	22.9	22.5
7/15/2023	16	21.3	21.9	24.0	24.8	24.7	24.9	22.9	22.5
7/15/2023	17	21.2	21.6	23.6	24.6	24.6	24.8	22.9	22.7
7/15/2023	18	21.2	21.3	23.2	24.2	24.3	24.4	22.9	22.9
7/15/2023	19	20.8	21.0	22.6	23.6	23.8	23.8	22.9	22.8
7/15/2023	20	21.0	21.3	22.1	23.3	23.4	23.3	22.9	22.7
7/15/2023	21	21.1	21.3	21.4	22.7	22.8	22.8	22.9	22.8
7/15/2023	22	21.3	21.5	21.2	22.1	22.3	22.2	22.9	23.0
7/15/2023	23	21.2	21.6	21.1	21.6	21.7	21.6	22.9	22.9
7/15/2023	24	21.1	21.1	21.1	21.3	21.4	21.2	22.9	22.8

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/16/2023	1	20.9	21.1	21.0	21.2	21.2	21.1	22.9	22.8
7/16/2023	2	21.0	21.3	20.8	21.0	21.1	21.0	22.9	22.8
7/16/2023	3	21.3	21.5	20.6	21.0	21.0	20.9	22.9	22.6
7/16/2023	4	21.6	21.8	20.6	20.8	20.8	20.7	22.9	22.6
7/16/2023	5	21.8	22.0	20.7	20.6	20.7	20.5	22.9	22.5
7/16/2023	6	22.0	22.2	20.8	20.6	20.6	20.4	22.9	22.5
7/16/2023	7	22.2	22.4	21.0	20.6	20.6	20.5	22.9	22.4
7/16/2023	8	22.4	22.6	21.4	20.9	20.7	20.7	22.9	22.4
7/16/2023	9	22.4	22.7	22.1	21.2	21.0	21.0	22.9	22.5
7/16/2023	10	22.5	22.8	22.8	21.8	21.4	21.6	23.0	22.7
7/16/2023	11	22.2	22.2	23.5	22.5	22.2	22.3	23.1	23.0
7/16/2023	12	21.3	21.3	23.9	23.4	23.0	23.2	23.2	23.1
7/16/2023	13	20.9	21.1	24.2	24.0	23.7	24.0	23.3	23.3
7/16/2023	14	20.8	21.0	24.2	24.5	24.2	24.5	23.4	23.3
7/16/2023	15	20.7	21.0	24.0	24.9	24.6	24.9	23.5	23.6
7/16/2023	16	20.7	21.0	23.8	24.9	24.7	25.0	23.6	23.6
7/16/2023	17	20.7	21.0	23.5	24.6	24.6	24.8	23.8	23.9
7/16/2023	18	20.7	21.0	23.0	24.3	24.3	24.5	23.8	23.4
7/16/2023	19	20.7	20.9	22.4	23.8	23.9	23.9	23.7	23.6
7/16/2023	20	20.7	20.9	21.7	23.3	23.4	23.3	23.6	23.7
7/16/2023	21	20.7	20.8	21.2	22.7	22.8	22.8	23.5	23.4
7/16/2023	22	20.7	20.9	20.8	22.1	22.3	22.2	23.4	23.3
7/16/2023	23	20.8	21.0	20.5	21.5	21.7	21.6	23.3	23.1
7/16/2023	24	20.8	21.0	20.3	21.1	21.3	21.1	23.2	22.9
7/17/2023	1	20.8	21.0	20.2	20.8	21.0	20.8	23.1	22.8
7/17/2023	2	20.9	21.0	20.1	20.6	20.7	20.5	23.0	22.8
7/17/2023	3	20.9	21.1	19.9	20.3	20.5	20.3	22.9	22.7
7/17/2023	4	21.1	21.2	19.8	20.1	20.3	20.1	22.8	22.7
7/17/2023	5	21.2	21.4	19.7	19.9	20.2	19.9	22.7	22.5
7/17/2023	6	21.3	21.6	19.7	19.8	20.0	19.7	22.6	22.4
7/17/2023	7	21.8	22.3	19.7	19.7	19.8	19.6	22.4	23.1
7/17/2023	8	22.5	23.1	20.1	19.9	19.7	19.6	23.5	23.6
7/17/2023	9	23.0	23.4	20.6	20.0	19.8	19.8	23.9	23.7
7/17/2023	10	23.1	23.5	21.2	20.2	19.9	20.1	24.0	23.7
7/17/2023	11	23.3	23.6	22.3	20.4	20.2	20.4	24.0	23.6
7/17/2023	12	23.4	23.7	23.4	21.0	20.6	20.9	24.0	23.6
7/17/2023	13	23.4	23.7	24.3	21.8	21.3	21.6	24.1	23.8
7/17/2023	14	23.4	23.7	25.0	22.7	22.1	22.5	24.1	23.8
7/17/2023	15	23.4	23.7	25.3	23.6	22.9	23.2	24.1	23.9
7/17/2023	16	23.4	23.7	25.3	24.2	23.6	23.9	24.1	23.8
7/17/2023	17	23.4	23.7	24.9	24.5	24.2	24.3	24.1	23.9
7/17/2023	18	23.5	23.8	24.3	24.6	24.4	24.5	24.1	23.8
7/17/2023	19	23.5	23.7	23.4	24.4	24.4	24.4	24.0	23.7
7/17/2023	20	23.5	23.7	22.5	24.0	24.1	24.0	24.0	23.7
7/17/2023	21	23.5	23.6	21.8	23.5	23.7	23.6	23.9	23.6

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/17/2023	22	23.4	23.5	21.3	22.9	23.2	23.1	23.8	23.5
7/17/2023	23	23.3	23.4	21.0	22.2	22.5	22.4	23.8	23.2
7/17/2023	24	23.3	23.4	20.9	21.6	21.9	21.7	23.7	23.4
7/18/2023	1	23.3	23.4	20.9	21.1	21.4	21.2	23.6	23.4
7/18/2023	2	23.2	23.4	20.8	20.7	21.0	20.8	23.6	23.3
7/18/2023	3	23.2	23.3	20.7	20.4	20.7	20.4	23.6	23.2
7/18/2023	4	23.2	23.3	20.6	20.2	20.5	20.2	23.5	23.1
7/18/2023	5	23.1	23.2	20.6	20.1	20.3	20.1	23.5	22.9
7/18/2023	6	23.1	23.2	20.6	20.0	20.2	19.9	23.5	23.0
7/18/2023	7	23.1	23.2	20.6	19.9	20.1	19.9	23.5	23.2
7/18/2023	8	23.0	23.2	20.9	20.4	20.2	20.0	23.5	23.2
7/18/2023	9	23.0	23.3	21.4	20.6	20.3	20.3	23.5	23.0
7/18/2023	10	23.1	23.3	22.2	20.8	20.4	20.6	23.5	23.2
7/18/2023	11	23.0	23.3	23.1	21.2	20.7	21.0	23.5	23.2
7/18/2023	12	23.0	23.3	24.1	21.8	21.3	21.6	23.6	23.2
7/18/2023	13	23.0	23.3	24.9	22.7	22.1	22.5	23.6	23.3
7/18/2023	14	23.0	23.3	25.6	23.6	22.9	23.4	23.6	23.4
7/18/2023	15	23.0	23.4	25.7	24.6	23.9	24.3	23.6	23.5
7/18/2023	16	23.1	23.4	25.7	25.4	24.8	25.2	23.6	23.5
7/18/2023	17	23.1	23.4	25.6	25.3	25.2	25.6	23.7	23.6
7/18/2023	18	23.2	23.4	25.1	25.5	25.3	25.6	23.7	23.6
7/18/2023	19	23.2	23.4	24.5	25.3	25.2	25.4	23.7	23.5
7/18/2023	20	23.2	23.4	23.8	25.0	25.0	25.0	23.7	23.5
7/18/2023	21	23.2	23.4	23.1	24.6	24.7	24.6	23.8	23.6
7/18/2023	22	23.2	23.4	22.5	24.1	24.3	24.2	23.8	23.6
7/18/2023	23	23.2	23.3	22.1	23.6	23.8	23.7	23.8	23.5
7/18/2023	24	23.2	23.3	21.8	22.9	23.2	23.1	23.8	23.5
7/19/2023	1	23.2	23.2	21.6	22.4	22.6	22.5	23.7	23.5
7/19/2023	2	23.0	23.0	21.5	21.9	22.2	22.0	23.7	23.4
7/19/2023	3	22.8	22.8	21.3	21.5	21.8	21.6	23.6	23.3
7/19/2023	4	22.6	22.6	21.2	21.2	21.5	21.3	23.6	23.2
7/19/2023	5	22.4	22.4	21.0	21.0	21.3	21.1	23.6	23.1
7/19/2023	6	22.3	22.3	20.9	20.9	21.1	20.9	23.5	23.2
7/19/2023	7	22.2	22.3	20.8	20.8	20.9	20.8	23.1	22.7
7/19/2023	8	22.1	22.3	21.1	21.1	20.9	20.8	22.9	22.7
7/19/2023	9	22.1	22.3	21.5	21.3	20.9	21.0	22.8	22.6
7/19/2023	10	22.0	22.2	22.3	21.3	21.0	21.2	22.8	22.4
7/19/2023	11	21.9	22.1	23.2	21.6	21.2	21.5	22.8	22.3
7/19/2023	12	21.9	22.2	24.1	22.3	21.7	22.2	22.7	22.3
7/19/2023	13	21.9	22.2	24.9	23.1	22.5	23.0	22.7	22.3
7/19/2023	14	21.9	22.2	25.5	24.1	23.4	24.0	22.7	22.5
7/19/2023	15	21.9	22.2	25.7	25.0	24.2	24.8	22.7	22.6
7/19/2023	16	21.9	22.2	25.7	25.5	24.9	25.4	22.7	22.7
7/19/2023	17	21.9	22.3	25.4	25.6	25.4	25.8	22.8	22.8
7/19/2023	18	22.0	22.2	25.0	25.8	24.0	24.3	22.9	22.8

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/19/2023	19	22.0	22.2	24.3	25.7	24.0	24.1	22.9	22.8
7/19/2023	20	22.0	22.2	23.5	25.3	23.8	23.9	23.0	22.8
7/19/2023	21	21.9	21.9	22.8	24.8	23.6	23.7	23.0	22.8
7/19/2023	22	21.8	21.9	22.2	24.3	23.3	23.4	22.9	22.6
7/19/2023	23	21.7	21.8	21.7	23.7	23.0	23.1	22.9	21.8
7/19/2023	24	21.7	21.7	21.4	23.1	22.8	22.7	22.8	22.2
7/20/2023	1	21.6	21.7	21.2	22.5	22.6	22.5	22.8	22.4
7/20/2023	2	21.6	21.7	20.9	22.0	22.4	22.3	22.7	22.4
7/20/2023	3	21.6	21.6	20.8	21.7	22.2	22.1	22.7	22.3
7/20/2023	4	21.5	21.6	20.6	21.3	22.1	21.9	22.6	22.2
7/20/2023	5	21.5	21.5	20.4	21.1	21.9	21.7	22.5	22.2
7/20/2023	6	21.5	21.5	20.3	20.9	21.7	21.6	22.4	22.2
7/20/2023	7	21.4	21.5	20.3	20.7	21.5	21.3	22.2	21.8
7/20/2023	8	21.1	21.2	20.6	20.7	21.3	21.2	22.1	21.7
7/20/2023	9	21.0	21.1	21.2	20.9	21.4	21.3	22.0	21.7
7/20/2023	10	20.8	21.1	21.9	21.0	21.4	21.5	22.0	21.8
7/20/2023	11	20.8	21.1	22.8	21.4	21.6	21.7	22.2	21.8
7/20/2023	12	20.9	21.2	23.7	22.0	21.9	22.1	22.3	21.9
7/20/2023	13	21.2	21.6	24.3	22.8	22.3	22.5	22.4	22.2
7/20/2023	14	21.1	21.5	24.8	23.8	22.8	23.1	22.5	22.3
7/20/2023	15	21.2	21.5	25.2	24.6	23.1	23.4	22.7	22.4
7/20/2023	16	21.1	21.4	25.3	25.1	23.4	23.7	22.8	22.5
7/20/2023	17	21.2	21.5	25.1	25.3	23.5	23.8	22.9	22.7
7/20/2023	18	21.1	21.3	24.6	25.5	23.6	24.0	23.0	22.5
7/20/2023	19	21.1	21.2	23.9	25.4	23.5	23.8	22.9	22.6
7/20/2023	20	21.1	21.2	23.2	25.2	23.4	23.6	22.8	22.5
7/20/2023	21	21.1	21.2	22.4	24.8	23.3	23.4	22.8	22.6
7/20/2023	22	21.0	21.1	21.9	24.2	23.2	23.3	22.8	22.5
7/20/2023	23	20.9	21.0	21.4	23.6	23.0	23.0	22.7	22.4
7/20/2023	24	20.9	21.0	21.1	22.9	22.7	22.7	22.7	22.4
7/21/2023	1	20.8	20.9	20.9	22.4	22.5	22.4	22.7	22.5
7/21/2023	2	20.8	20.9	20.7	21.9	22.3	22.3	22.7	22.5
7/21/2023	3	20.8	20.9	20.6	21.6	22.2	22.1	22.6	22.5
7/21/2023	4	20.8	20.8	20.4	21.3	22.0	21.9	22.6	22.4
7/21/2023	5	20.7	20.8	20.3	21.1	21.9	21.8	22.6	22.3
7/21/2023	6	20.7	20.8	20.2	20.9	21.7	21.6	22.4	22.3
7/21/2023	7	20.8	21.2	20.2	20.7	21.7	21.5	22.4	22.6
7/21/2023	8	20.9	21.3	20.5	20.8	21.9	21.8	22.7	22.8
7/21/2023	9	21.0	21.3	21.0	21.0	22.0	22.0	22.8	22.6
7/21/2023	10	21.0	21.3	21.7	21.1	21.9	22.0	22.8	22.5
7/21/2023	11	21.0	21.3	22.7	21.4	22.0	22.1	22.8	22.3
7/21/2023	12	21.1	21.7	23.7	22.0	22.2	22.4	22.7	22.4
7/21/2023	13	21.1	21.6	24.6	22.8	22.7	22.9	22.8	22.8
7/21/2023	14	21.2	21.7	25.1	23.8	23.1	23.4	23.1	22.8
7/21/2023	15	21.3	21.9	25.4	24.6	23.4	23.7	23.3	23.0

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/21/2023	16	21.3	21.8	25.4	25.2	23.9	24.2	23.6	23.4
7/21/2023	17	21.4	22.1	25.0	25.4	24.1	24.4	23.8	23.6
7/21/2023	18	21.7	22.3	24.6	25.6	24.3	24.5	24.1	23.9
7/21/2023	19	22.1	22.5	23.9	25.4	24.4	24.5	24.4	24.2
7/21/2023	20	22.1	22.6	23.1	25.0	24.4	24.4	24.6	24.2
7/21/2023	21	22.2	22.7	22.3	24.4	24.2	24.2	24.5	24.0
7/21/2023	22	22.5	22.9	21.9	23.9	24.1	24.0	24.4	24.1
7/21/2023	23	22.3	22.6	21.6	23.2	23.9	23.8	24.3	24.1
7/21/2023	24	22.3	22.4	21.4	22.7	23.6	23.5	24.2	24.0
7/22/2023	1	22.0	22.2	21.3	22.2	23.4	23.2	24.1	24.0
7/22/2023	2	22.0	22.3	21.2	21.8	23.1	23.0	24.1	23.9
7/22/2023	3	22.1	22.5	21.2	21.5	22.9	22.8	24.0	23.7
7/22/2023	4	22.4	22.8	21.0	21.3	22.8	22.6	23.9	23.6
7/22/2023	5	22.7	23.1	20.7	21.2	22.6	22.5	23.8	23.4
7/22/2023	6	22.9	23.4	20.7	21.0	22.5	22.3	23.8	23.2
7/22/2023	7	23.7	24.0	20.8	20.9	22.7	22.5	24.1	24.2
7/22/2023	8	23.9	24.1	21.2	21.1	22.8	22.7	24.3	24.2
7/22/2023	9	23.7	23.9	21.8	21.2	22.8	22.8	24.3	24.0
7/22/2023	10	23.5	23.9	22.6	21.3	22.8	22.8	24.3	23.9
7/22/2023	11	23.6	24.0	23.8	21.7	22.9	23.0	24.3	23.9
7/22/2023	12	23.7	24.1	24.9	22.3	23.2	23.3	24.4	24.0
7/22/2023	13	23.8	24.2	25.6	23.1	23.6	23.7	24.4	24.1
7/22/2023	14	23.9	24.3	26.0	24.1	24.0	24.2	24.4	24.2
7/22/2023	15	24.0	24.4	26.3	24.9	24.4	24.6	24.4	24.3
7/22/2023	16	24.1	24.5	26.3	25.5	24.7	24.9	24.4	24.4
7/22/2023	17	24.2	24.5	26.0	25.7	24.9	25.1	24.5	24.5
7/22/2023	18	24.2	24.5	25.6	25.9	25.0	25.1	24.5	24.5
7/22/2023	19	24.2	24.5	24.9	25.9	24.9	25.0	24.5	24.5
7/22/2023	20	24.2	24.4	24.1	25.5	24.8	24.8	24.5	24.4
7/22/2023	21	24.1	24.3	23.6	25.1	24.7	24.7	24.6	24.4
7/22/2023	22	24.1	24.3	23.1	24.6	24.5	24.4	24.6	24.3
7/22/2023	23	24.1	24.2	22.8	24.1	24.3	24.2	24.5	24.3
7/22/2023	24	24.0	24.2	22.6	23.5	24.1	23.9	24.4	24.2
7/23/2023	1	24.0	24.1	22.4	23.0	23.8	23.7	24.3	24.2
7/23/2023	2	24.0	24.1	22.2	22.7	23.6	23.5	24.3	24.0
7/23/2023	3	24.0	24.1	22.1	22.4	23.4	23.3	24.2	24.0
7/23/2023	4	24.0	24.1	22.0	22.2	23.3	23.1	24.1	23.9
7/23/2023	5	23.9	24.1	21.9	21.9	23.1	22.9	24.0	23.7
7/23/2023	6	23.9	24.0	21.8	21.8	23.0	22.8	24.0	23.6
7/23/2023	7	23.9	24.0	21.8	21.7	22.9	22.7	23.9	23.5
7/23/2023	8	23.9	24.1	22.1	21.9	22.8	22.7	23.9	23.5
7/23/2023	9	23.8	24.1	22.6	22.1	22.8	22.7	23.8	23.4
7/23/2023	10	23.9	24.2	23.2	22.2	22.8	22.9	23.8	23.5
7/23/2023	11	23.9	24.2	24.1	22.5	23.0	23.1	23.8	23.6
7/23/2023	12	23.9	24.3	25.0	23.0	23.2	23.4	23.8	23.8

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/23/2023	13	24.0	24.3	25.9	23.8	23.6	23.8	23.9	23.9
7/23/2023	14	24.0	24.4	26.6	24.7	23.9	24.2	24.0	24.1
7/23/2023	15	24.0	24.4	26.9	25.6	24.3	24.6	24.0	24.3
7/23/2023	16	24.1	24.4	26.9	26.2	24.6	24.9	24.1	24.4
7/23/2023	17	24.1	24.4	26.7	26.4	24.8	25.2	24.2	24.5
7/23/2023	18	24.1	24.4	26.2	26.7	24.9	25.3	24.3	24.6
7/23/2023	19	24.1	24.4	25.5	26.6	24.9	25.2	24.4	24.7
7/23/2023	20	24.1	24.3	24.8	26.3	24.9	25.0	24.4	24.7
7/23/2023	21	24.1	24.3	24.1	25.9	24.8	24.8	24.4	24.6
7/23/2023	22	24.1	24.3	23.5	25.3	24.6	24.6	24.3	24.3
7/23/2023	23	24.1	24.3	23.2	24.8	24.4	24.3	24.3	24.1
7/23/2023	24	24.1	24.3	22.9	24.2	24.2	24.1	24.2	24.1
7/24/2023	1	24.1	24.3	22.6	23.6	24.0	23.9	24.1	24.0
7/24/2023	2	24.1	24.2	22.4	23.2	23.8	23.6	24.1	23.9
7/24/2023	3	24.1	24.2	22.2	22.8	23.5	23.4	24.0	23.6
7/24/2023	4	24.0	24.1	22.1	22.4	23.3	23.1	24.0	23.5
7/24/2023	5	23.9	24.0	22.0	22.2	23.1	22.9	23.8	23.5
7/24/2023	6	23.8	23.9	21.8	21.9	22.9	22.7	23.7	23.4
7/24/2023	7	23.7	23.9	21.8	21.8	22.8	22.6	23.7	23.3
7/24/2023	8	23.7	23.9	22.2	22.0	22.7	22.6	23.7	23.2
7/24/2023	9	23.7	24.0	22.7	22.2	22.8	22.7	23.7	23.1
7/24/2023	10	23.7	24.0	23.3	22.3	22.8	22.8	23.7	23.2
7/24/2023	11	23.6	24.0	24.1	22.5	22.9	23.0	23.7	23.1
7/24/2023	12	23.6	23.9	24.7	22.8	23.1	23.1	23.7	22.9
7/24/2023	13	23.6	23.9	25.1	23.5	23.4	23.4	23.7	23.1
7/24/2023	14	23.6	23.8	25.1	24.1	23.6	23.7	23.7	23.4
7/24/2023	15	23.5	23.8	24.5	24.3	23.6	23.6	23.7	23.2
7/24/2023	16	23.5	23.8	24.0	24.6	23.8	23.8	23.7	23.4
7/24/2023	17	23.5	23.7	23.6	24.7	23.8	23.8	23.7	23.4
7/24/2023	18	23.5	23.8	23.4	24.3	23.8	23.8	23.7	23.5
7/24/2023	19	23.5	23.8	23.2	23.9	23.6	23.5	23.7	23.4
7/24/2023	20	23.6	23.8	22.9	23.5	23.4	23.3	23.6	23.3
7/24/2023	21	23.6	23.7	22.5	23.2	23.3	23.2	23.5	23.3
7/24/2023	22	23.6	23.7	22.1	22.9	23.2	23.0	23.4	23.2
7/24/2023	23	23.6	23.7	21.8	22.7	23.0	22.9	23.3	23.1
7/24/2023	24	23.6	23.7	21.6	22.3	22.8	22.6	23.2	23.0
7/25/2023	1	23.6	23.7	21.4	22.0	22.6	22.5	23.1	23.0
7/25/2023	2	23.7	23.8	21.3	21.6	22.4	22.3	23.0	22.8
7/25/2023	3	23.7	23.8	21.3	21.4	22.3	22.1	22.9	22.7
7/25/2023	4	23.7	23.8	21.2	21.2	22.1	21.9	22.8	22.6
7/25/2023	5	23.7	23.8	21.3	21.0	22.0	21.7	22.8	22.4
7/25/2023	6	23.7	23.8	21.2	20.9	21.9	21.7	22.7	22.3
7/25/2023	7	23.8	23.8	21.3	20.8	22.3	22.1	23.5	23.8
7/25/2023	8	23.7	23.8	21.3	20.8	22.5	22.4	24.1	23.9
7/25/2023	9	23.6	23.7	21.4	20.8	22.6	22.4	24.1	23.8

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/25/2023	10	23.6	23.7	21.6	20.9	22.6	22.4	24.0	23.8
7/25/2023	11	23.4	23.6	22.2	21.2	22.6	22.6	23.9	23.7
7/25/2023	12	23.3	23.5	22.8	21.4	22.6	22.6	23.9	23.6
7/25/2023	13	23.3	23.4	23.0	21.6	22.7	22.6	23.8	23.5
7/25/2023	14	23.2	23.3	23.1	21.9	22.8	22.7	23.7	23.5
7/25/2023	15	23.1	23.3	23.5	22.4	23.0	22.9	23.6	23.4
7/25/2023	16	23.1	23.3	23.9	22.8	23.1	23.2	23.6	23.4
7/25/2023	17	23.1	23.3	24.2	22.8	23.2	23.2	23.6	23.4
7/25/2023	18	23.1	23.3	24.0	23.2	23.3	23.2	23.5	23.4
7/25/2023	19	23.1	23.3	23.4	23.3	23.3	23.1	23.5	23.3
7/25/2023	20	23.1	23.2	22.8	23.1	23.2	23.0	23.5	23.3
7/25/2023	21	23.1	23.2	21.9	22.9	23.1	22.9	23.4	23.2
7/25/2023	22	23.1	23.1	21.4	22.7	23.0	22.8	23.4	23.2
7/25/2023	23	23.0	23.1	21.1	22.3	22.9	22.7	23.3	23.0
7/25/2023	24	23.0	23.0	20.9	21.8	22.7	22.5	23.3	23.0
7/26/2023	1	23.0	23.0	20.9	21.3	22.4	22.2	23.2	22.9
7/26/2023	2	23.0	23.0	20.8	20.9	22.2	22.0	23.1	22.9
7/26/2023	3	22.9	22.9	20.7	20.7	22.0	21.8	23.0	22.8
7/26/2023	4	22.9	22.9	20.7	20.5	21.8	21.6	22.8	22.6
7/26/2023	5	22.9	22.8	20.6	20.4	21.7	21.5	22.8	22.4
7/26/2023	6	22.8	22.8	20.4	20.3	21.6	21.4	22.8	22.4
7/26/2023	7	22.8	22.8	20.4	20.2	21.8	21.6	22.9	22.8
7/26/2023	8	22.8	22.8	20.7	20.4	21.8	21.7	23.0	22.8
7/26/2023	9	22.7	22.8	21.2	20.6	21.8	21.8	23.1	22.8
7/26/2023	10	22.7	22.8	21.9	20.8	21.9	21.9	23.1	22.7
7/26/2023	11	22.6	22.8	22.8	21.0	22.1	22.1	23.1	22.8
7/26/2023	12	22.6	22.8	23.8	21.5	22.3	22.3	23.2	22.8
7/26/2023	13	22.7	23.0	24.6	22.3	22.6	22.8	23.2	22.9
7/26/2023	14	22.7	22.9	25.1	23.2	23.0	23.1	23.2	23.0
7/26/2023	15	22.7	23.0	25.4	24.0	23.3	23.5	23.3	23.1
7/26/2023	16	22.7	23.0	25.3	24.5	23.6	23.8	23.3	23.2
7/26/2023	17	22.8	23.0	25.1	24.8	23.7	24.0	23.3	23.2
7/26/2023	18	22.8	23.0	24.7	25.0	23.8	24.0	23.3	23.2
7/26/2023	19	22.8	23.0	24.1	24.9	23.8	23.9	23.3	23.2
7/26/2023	20	22.9	23.0	23.3	24.6	23.7	23.8	23.3	23.3
7/26/2023	21	22.9	23.0	22.7	24.2	23.6	23.6	23.3	23.3
7/26/2023	22	22.9	23.0	22.2	23.8	23.5	23.4	23.3	23.3
7/26/2023	23	22.9	23.0	21.7	23.3	23.3	23.2	23.3	23.2
7/26/2023	24	22.9	23.0	21.5	22.7	23.1	22.9	23.3	23.1
7/27/2023	1	22.9	23.0	21.3	22.2	22.8	22.7	23.3	23.1
7/27/2023	2	22.9	23.0	21.2	21.8	22.7	22.5	23.2	23.0
7/27/2023	3	22.9	23.0	21.1	21.4	22.5	22.3	23.2	23.0
7/27/2023	4	22.9	22.9	21.1	21.2	22.3	22.1	23.1	22.9
7/27/2023	5	22.9	22.9	21.0	21.0	22.2	22.0	23.1	22.8
7/27/2023	6	22.9	22.9	20.9	20.9	22.0	21.8	23.1	22.7

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/27/2023	7	22.9	23.0	20.9	20.8	22.1	22.0	23.1	23.1
7/27/2023	8	22.9	22.9	21.2	21.0	22.2	22.0	23.0	23.0
7/27/2023	9	22.5	22.5	21.7	21.2	22.2	22.1	23.0	23.0
7/27/2023	10	22.0	22.2	22.4	21.3	22.2	22.2	22.9	22.8
7/27/2023	11	21.7	21.8	23.4	21.6	22.2	22.3	22.9	22.6
7/27/2023	12	21.5	21.7	24.2	22.1	22.3	22.4	22.9	22.5
7/27/2023	13	21.4	21.7	24.8	22.9	22.6	22.8	22.9	22.5
7/27/2023	14	21.4	21.8	25.2	23.9	23.0	23.3	22.9	22.7
7/27/2023	15	21.5	21.9	25.4	24.7	23.3	23.7	22.9	22.8
7/27/2023	16	21.6	21.8	24.8	25.1	23.6	23.9	23.0	22.9
7/27/2023	17	21.5	21.9	24.0	25.3	23.6	23.9	23.0	22.9
7/27/2023	18	21.6	21.8	23.1	25.2	23.6	23.8	23.1	22.9
7/27/2023	19	21.7	21.9	22.4	24.8	23.6	23.7	23.1	23.0
7/27/2023	20	21.8	22.0	21.7	24.0	23.4	23.4	23.2	23.1
7/27/2023	21	22.1	22.5	21.1	23.1	23.2	23.1	23.2	23.1
7/27/2023	22	22.5	22.6	20.7	22.5	23.0	22.8	23.3	23.1
7/27/2023	23	22.3	22.4	20.5	21.9	22.7	22.6	23.3	22.9
7/27/2023	24	22.3	22.6	20.4	21.4	22.5	22.3	23.2	22.9
7/28/2023	1	22.4	22.6	20.5	20.9	22.3	22.1	23.1	22.9
7/28/2023	2	22.3	22.5	20.6	20.6	22.0	21.9	23.0	22.8
7/28/2023	3	22.3	22.5	20.5	20.5	21.9	21.7	22.9	22.7
7/28/2023	4	22.4	22.6	20.5	20.4	21.7	21.5	22.8	22.6
7/28/2023	5	22.5	22.6	20.5	20.3	21.7	21.5	22.7	22.4
7/28/2023	6	22.5	22.7	20.5	20.3	21.6	21.4	22.7	22.4
7/28/2023	7	22.7	22.8	20.6	20.3	21.7	21.6	22.9	22.9
7/28/2023	8	22.8	22.9	20.9	20.5	21.9	21.8	23.1	22.9
7/28/2023	9	22.8	22.9	21.4	20.7	22.0	21.9	23.2	22.9
7/28/2023	10	22.7	22.9	22.2	21.0	22.1	22.1	23.2	22.9
7/28/2023	11	22.6	22.9	23.1	21.3	22.2	22.3	23.2	22.9
7/28/2023	12	22.6	22.9	24.1	21.8	22.4	22.6	23.2	22.9
7/28/2023	13	22.7	23.0	24.9	22.7	22.8	22.9	23.3	23.0
7/28/2023	14	22.6	22.9	25.5	23.7	23.2	23.4	23.3	23.1
7/28/2023	15	22.6	23.0	25.4	24.5	23.5	23.7	23.3	23.2
7/28/2023	16	22.7	23.0	25.3	24.9	23.7	23.9	23.4	23.2
7/28/2023	17	22.8	23.1	25.2	25.2	23.9	24.2	23.4	23.3
7/28/2023	18	22.9	23.2	24.7	25.3	23.9	24.2	23.4	23.3
7/28/2023	19	22.9	23.1	24.0	25.1	23.9	24.0	23.4	23.3
7/28/2023	20	23.0	23.2	23.3	24.7	23.8	23.9	23.4	23.3
7/28/2023	21	23.0	23.2	22.7	24.3	23.7	23.7	23.4	23.2
7/28/2023	22	23.1	23.2	22.2	23.8	23.5	23.5	23.4	23.2
7/28/2023	23	23.1	23.2	21.8	23.3	23.3	23.2	23.4	22.9
7/28/2023	24	23.1	23.2	21.7	22.7	23.1	23.0	23.4	23.1
7/29/2023	1	23.1	23.1	21.5	22.3	22.9	22.8	23.3	23.0
7/29/2023	2	23.1	23.1	21.4	21.9	22.7	22.5	23.3	23.0
7/29/2023	3	23.1	23.1	21.3	21.6	22.5	22.3	23.3	23.0

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/29/2023	4	23.0	23.1	21.2	21.3	22.4	22.2	23.2	22.9
7/29/2023	5	23.0	23.1	21.0	21.2	22.2	22.0	23.2	22.8
7/29/2023	6	23.0	23.0	21.0	21.0	22.1	21.9	23.1	22.7
7/29/2023	7	23.0	23.1	20.9	20.9	22.2	22.0	23.1	23.1
7/29/2023	8	23.0	23.1	21.2	21.0	22.3	22.1	23.3	23.1
7/29/2023	9	22.9	23.1	21.7	21.2	22.3	22.2	23.3	23.1
7/29/2023	10	22.9	23.2	22.5	21.4	22.4	22.4	23.3	23.1
7/29/2023	11	22.9	23.2	23.4	21.7	22.5	22.6	23.4	23.2
7/29/2023	12	22.9	23.2	24.4	22.2	22.8	22.9	23.4	23.2
7/29/2023	13	22.8	23.1	25.2	23.0	23.1	23.3	23.4	23.2
7/29/2023	14	22.7	23.0	25.8	24.0	23.4	23.7	23.4	23.3
7/29/2023	15	22.6	22.9	26.1	24.8	23.7	24.0	23.5	23.3
7/29/2023	16	22.6	22.9	26.0	25.4	24.0	24.3	23.5	23.3
7/29/2023	17	22.6	22.9	25.6	25.6	24.1	24.4	23.5	23.3
7/29/2023	18	22.6	22.9	25.0	25.9	24.2	24.4	23.5	23.4
7/29/2023	19	22.7	22.9	24.2	25.7	24.1	24.3	23.5	23.4
7/29/2023	20	23.0	23.2	23.4	25.3	24.1	24.1	23.5	23.4
7/29/2023	21	23.1	23.2	22.8	24.8	23.9	24.0	23.5	23.4
7/29/2023	22	23.0	23.1	22.3	24.2	23.8	23.8	23.6	23.4
7/29/2023	23	23.0	23.1	21.8	23.6	23.5	23.5	23.6	23.2
7/29/2023	24	23.0	23.1	21.5	22.8	23.3	23.1	23.6	23.2
7/30/2023	1	23.0	23.2	21.3	22.3	23.0	22.8	23.5	23.2
7/30/2023	2	23.0	23.2	21.1	21.8	22.8	22.6	23.4	23.2
7/30/2023	3	23.0	23.1	20.9	21.4	22.6	22.4	23.4	23.1
7/30/2023	4	23.0	23.1	20.7	21.1	22.4	22.1	23.3	23.0
7/30/2023	5	23.0	23.1	20.7	20.9	22.2	22.0	23.2	22.9
7/30/2023	6	23.0	23.1	20.6	20.7	22.0	21.8	23.1	22.8
7/30/2023	7	23.0	23.1	20.7	20.6	21.9	21.7	23.0	22.7
7/30/2023	8	23.0	23.1	21.0	20.6	21.8	21.7	22.9	22.5
7/30/2023	9	23.0	23.1	21.4	20.7	21.8	21.7	22.9	22.6
7/30/2023	10	23.0	23.1	21.7	20.7	21.8	21.7	22.9	22.7
7/30/2023	11	23.0	23.1	22.1	21.0	21.8	21.8	22.9	22.7
7/30/2023	12	23.0	23.2	22.5	21.5	22.0	22.0	22.9	22.8
7/30/2023	13	23.0	23.3	23.7	22.1	22.3	22.5	22.9	23.3
7/30/2023	14	23.0	23.3	24.5	22.6	22.6	22.8	23.0	23.5
7/30/2023	15	23.0	23.3	25.1	23.3	22.8	23.0	23.1	23.3
7/30/2023	16	23.0	23.2	25.4	23.8	23.2	23.3	23.1	23.4
7/30/2023	17	23.0	23.2	25.2	24.2	23.4	23.6	23.2	23.4
7/30/2023	18	23.0	23.2	24.6	24.6	23.5	23.6	23.3	23.4
7/30/2023	19	23.0	23.1	23.7	24.6	23.6	23.5	23.4	23.2
7/30/2023	20	23.0	23.1	22.7	24.2	23.4	23.4	23.3	23.1
7/30/2023	21	23.0	23.1	22.0	23.8	23.3	23.2	23.2	23.0
7/30/2023	22	23.0	23.1	21.5	23.1	23.0	22.9	23.1	22.9
7/30/2023	23	23.0	23.1	21.2	22.5	22.8	22.6	23.0	22.8
7/30/2023	24	23.0	23.1	21.1	21.9	22.5	22.3	22.9	22.7

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 R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/31/2023	1	23.0	23.1	20.8	21.5	22.3	22.1	22.8	22.6
7/31/2023	2	23.0	23.1	20.7	21.2	22.1	21.9	22.7	22.5
7/31/2023	3	23.0	23.1	20.7	20.9	21.9	21.7	22.6	22.4
7/31/2023	4	23.0	23.0	20.6	20.6	21.7	21.5	22.6	22.3
7/31/2023	5	23.0	23.0	20.4	20.4	21.6	21.3	22.5	22.2
7/31/2023	6	22.9	22.9	20.3	20.3	21.5	21.2	22.4	22.1
7/31/2023	7	22.9	22.9	20.3	20.2	21.3	21.1	22.4	22.0
7/31/2023	8	22.8	22.9	20.6	20.3	21.2	21.1	22.3	21.9
7/31/2023	9	22.8	22.9	21.1	20.4	21.2	21.2	22.2	21.8
7/31/2023	10	22.8	23.0	21.7	20.6	21.3	21.3	22.2	21.9
7/31/2023	11	22.8	23.0	22.7	20.9	21.4	21.5	22.1	22.0
7/31/2023	12	22.8	23.1	23.8	21.4	21.6	21.8	22.3	22.6
7/31/2023	13	22.9	23.1	24.6	22.4	22.1	22.3	22.4	22.7
7/31/2023	14	22.9	23.2	25.2	23.5	22.5	22.8	22.5	22.6
7/31/2023	15	22.9	23.2	25.6	24.4	23.0	23.3	22.7	23.1
7/31/2023	16	22.9	23.1	25.6	24.8	23.3	23.7	22.8	23.1
7/31/2023	17	22.9	23.1	25.3	25.1	23.6	24.0	23.0	23.5
7/31/2023	18	22.8	23.0	24.8	25.3	23.7	24.0	23.1	23.6
7/31/2023	19	22.8	22.9	24.2	25.1	23.6	23.9	23.2	23.6
7/31/2023	20	22.8	22.9	23.4	24.8	23.6	23.7	23.2	23.4
7/31/2023	21	22.8	22.9	22.7	24.3	23.5	23.5	23.2	23.1
7/31/2023	22	22.8	22.8	22.1	23.7	23.3	23.2	23.2	23.0
7/31/2023	23	22.8	22.8	21.7	23.1	23.0	22.9	23.2	22.9
7/31/2023	24	22.8	22.8	21.5	22.5	22.8	22.7	23.0	22.7