

By email

September 10, 2021

Mr. John Smith
Maryland Department of the Environment
Water Management Administration
Source Protection and Appropriation Division
1800 Washington Boulevard
Baltimore, MD 21230

RE: Water Appropriation and Use Permit No. GA1992S009 (09)
Temperature Monitoring at the Sang Run Bridge on the Youghiogheny River
August 2021

Dear Mr. Smith:

Temperature in the Youghiogheny River at the Sang Run Bridge temperature monitor exceed 25°C on August 4, 5 and 22. The Summary of Excursions provides additional details.

TER's were conducted on August 8, 10, 11, 12, 22, 24, 25, 26 and 29. Per the Water Appropriation and Use Permit issued on September 2, 2020, TERs were not conducted on regularly scheduled whitewater release days or when river flows exceeded 180 cfs.

The Temperature Enhancement Protocol Operating Log sheets for August 2021 and the daily temperature monitor readings are attached for your review.

Should any additional information be required, please contact me by phone at 857-265-8298, by e-mail at amy.burnett@brookfieldrenewable.com, or by mail at Brookfield Renewable, 126 Lamberton Lane, Hawley, PA 18428.

Yours truly,



Amy L. Burnett
Compliance Specialist

Attachment: August 2021 Sang Run Temperature Report

cc by email: J. McClung (Brookfield)
K. Moriarty (Brookfield)
K. Lester (Brookfield)



DEEP CREEK STATION
MARYLAND WATER APPROPRIATION
PERMIT
NO. GA1992S009 (09)
TEMPERATURE MONITORING REPORT
AUGUST 2021

Summary of Temperature Excursions
August 1, 2021 to August 31, 2021

Date	Duration	Max Temp (°C)	Cause	Remarks
August 4, 2021	2 hours 45 minutes	25.65	Model Uncertainty	The temperature protocol conducted on August 4 called for no releases. The temperature excursion on August 4 occurred from 16:30 to 19:15.
August 5, 2021	1 hours 45 minutes	25.38	Model Uncertainty	The temperature protocol conducted on August 5 called for no releases. The temperature excursion on August 5 occurred from 17:00 to 18:45.
August 22, 2021	15 minutes	25.04	Model Uncertainty	The temperature protocol conducted on August 22 called for a one hour release at 14:30. A release using two units, at full gate opening, was made from 14:30 to 15:30. The temperature excursion on August 22 occurred at 16:15.

Temperature Enhancement Protocol Operating Log
Sheets – August 2021

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

28 = CFS River Flow at Oakland

August 1, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.87 (23 to 26.4)	Check Again at 0900
0900	24.91 (23 to 25.9)	Check Again at 1100
1100	23.61 (23 to 25.4)	Check Again at 1200
1200	23.50 (23 to 25.3)	Check Again at 1400
1400	23.65 (23 to 25.2)	Check Again at 1500
1500	24.05	Check Again Tomorrow at 0700

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.98	River Temp Sang Run @700		
T9	18.96	River Temp Sang Run @900		
T11	19.60	River Temp Sang Run @1100		
T12	20.20	River Temp Sang Run @1200		
T14	21.94	River Temp Sang Run @1400		
T15	22.90	River Temp Sang Run @1500		
Q	28.00	River Flow at Oakland		

John Rin

LB 8/1/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

21.8 = CFS River Flow at Oakland

August 2, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500	(23 to 25.2)	Input 0700 SANG RUN Temp

LWR
1100-1400
L2

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	21.80	River Flow at Oakland		

Ruff 8/2/2021

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

20.7 = CFS River Flow at Oakland

August 3, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.12 (23 to 26.4)	Check Again at 0900
0900	22.68 (23 to 25.9)	Check Again at 1100
1100	22.03 (23 to 25.4)	Check Again at 1200
1200	22.47 (23 to 25.3)	Check Again at 1400
1400	21.72 (23 to 25.2)	Check Again at 1500
1500	21.59	Check Again Tomorrow at 0700



Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64.00	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	16.37	River Temp Sang Run @700		
T9	16.25	River Temp Sang Run @900		
T11	17.15	River Temp Sang Run @1100		
T12	18.39	River Temp Sang Run @1200		
T14	19.67	River Temp Sang Run @1400		
T15	20.22	River Temp Sang Run @1500		
Q	20.70	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

43.1 = CFS River Flow at Oakland

August 4, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.77 (23 to 26.4)	Check Again at 0900
0900	24.52 (23 to 25.9)	Check Again at 1100
1100	23.56 (23 to 25.4)	Check Again at 1200
1200	22.96 (23 to 25.3)	Check Again at 1400
1400	24.36 (23 to 25.2)	Check Again at 1500
1500	24.87	Check Again Tomorrow at 0700

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Tair °C	26.67	Air Temp, Elkins WV - Degree C	80 MOSUNNY	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV		Cloud Cover, Elkins WV
T7	17.61	River Temp Sang Run @700		
T9	17.53	River Temp Sang Run @900		
T11	18.22	River Temp Sang Run @1100		
T12	18.53	River Temp Sang Run @1200		
T14	21.53	River Temp Sang Run @1400		
T15	23.04	River Temp Sang Run @1500		
Q	43.10	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

41.4 = CFS River Flow at Oakland

August 5, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.61 (23 to 26.4)	Check Again at 0900
0900	24.40 (23 to 25.9)	Check Again at 1100
1100	24.44 (23 to 25.4)	Check Again at 1200
1200	24.63 (23 to 25.3)	Check Again at 1400
1400	23.08 (23 to 25.2)	Check Again at 1500
1500	24.14	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	17.91	River Temp Sang Run @700
T9	17.91	River Temp Sang Run @900
T11	19.17	River Temp Sang Run @1100
T12	20.17	River Temp Sang Run @1200
T14	21.25	River Temp Sang Run @1400
T15	22.82	River Temp Sang Run @1500
Q	41.40	River Flow at Oakland

81
TSTRMS

Air Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

25.4 = CFS River Flow at Oakland

August 6, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

WWR

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	25.40	River Flow at Oakland		

LB 8/6/21

Stacey Weedon

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

19.6 = CFS River Flow at Oakland

August 7, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

WWR

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	19.60	River Flow at Oakland		

Stacy Weirh

LB 8/7/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

17.5 = CFS River Flow at Oakland

August 8, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.35 (23 to 26.4)	Check Again at 0900
0900	24.15 (23 to 25.9)	Check Again at 1100
1100	24.82 (23 to 25.4)	Check Again at 1200
1200	24.57 (23 to 25.3)	Check Again at 1400
1400	24.02 (23 to 25.2)	Check Again at 1500
1500	25.19	Release ASAP - not later than 1530 for 1 hour

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	17.87	River Temp Sang Run @700		
T9	17.89	River Temp Sang Run @900		
T11	19.50	River Temp Sang Run @1100		
T12	20.32	River Temp Sang Run @1200		
T14	22.51	River Temp Sang Run @1400		
T15	23.64	River Temp Sang Run @1500		
Q	17.50	River Flow at Oakland		

LB 8/8/21

Stacey Weedon

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

Print

16.5 = CFS River Flow at Oakland

August 9, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Schedule your J. Edel

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.50	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

15.5 = CFS River Flow at Oakland

August 10, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.47 (23 to 26.4)	Release at 1100 for 2 Hours
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

1100 release
[Signature]
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Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.41	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.50	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

21.8 = CFS River Flow at Oakland

August 11, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.34 (23 to 26.4)	Check Again at 0900
0900	26.18 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Temperature release
J. Ch...
Vally

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.03	River Temp Sang Run @700		
T9	19.06	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	21.80	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

23 = CFS River Flow at Oakland

August 12, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.51 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

*Temp. range
John
[Signature]*

Tair °C	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.63	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	23.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

30.7 = CFS River Flow at Oakland

August 13, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	30.70	River Flow at Oakland		

WWR 1100 - 1400

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

15.5 = CFS River Flow at Oakland

August 14, 2021

[Print](#)

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64.00	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.50	River Flow at Oakland		

WWR 1100 - 1400 eF

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT Simulate a Range of

39.8 = CFS River Flow at Oakland

August 15, 2021

Print

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.62 (23 to 26.4)	Check Again at 0900
0900	24.47 (23 to 25.9)	Check Again at 1100
1100	24.43 (23 to 25.4)	Check Again at 1200
1200	24.41 (23 to 25.3)	Check Again at 1400
1400	23.19 (23 to 25.2)	Check Again at 1500
1500	22.77	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81 MOCLDY	Air Temp, Elkins WV - Degree F
CCF	64.00	Cloud Cover Factor, Elkins WV		Cloud Cover, Elkins WV
T7	19.34	River Temp Sang Run @700		
T9	19.32	River Temp Sang Run @900		
T11	20.20	River Temp Sang Run @1100		
T12	20.96	River Temp Sang Run @1200		
T14	21.68	River Temp Sang Run @1400		
T15	21.84	River Temp Sang Run @1500		
Q	39.80	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

35.1 = CFS River Flow at Oakland

August 16, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64.00	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	35.10	River Flow at Oakland		

WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT P Simulate a Range of

Print

457 = CFS River Flow at Oakland

August 17, 2021

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.3 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 180 CFS
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64.00	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	19.58	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	457.00	River Flow at Oakland		

Stacey Weeden 21
LB 8/17/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

101 = CFS River Flow at Oakland

August 18, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.15 (23 to 26.4)	Check Again at 0900
0900	21.11 (23 to 25.9)	Check Again at 1100
1100	23.62 (23 to 25.4)	Check Again at 1200
1200	23.53 (23 to 25.3)	Check Again at 1400
1400	23.07 (23 to 25.2)	Check Again at 1500
1500	22.73	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.34	River Temp Sang Run @700		
T9	20.36	River Temp Sang Run @900		
T11	20.89	River Temp Sang Run @1100		
T12	21.29	River Temp Sang Run @1200		
T14	21.91	River Temp Sang Run @1400		
T15	21.99	River Temp Sang Run @1500		
Q	101.00	River Flow at Oakland		

SW 8/18/21

LB 8/18/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

194 = CFS River Flow at Oakland

August 19, 2021 Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.52 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 180 CFS
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	20.36	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	194.00	River Flow at Oakland		

LB 8/19/21

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

149 = CFS River Flow at Oakland

August 20, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

WWR

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	149.00	River Flow at Oakland		

SW 8/20/21

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

159 = CFS River Flow at Oakland

August 21, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	159.00	River Flow at Oakland		

WWR
 Proj 8/21/2021

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

95.3 = CFS River Flow at Oakland

August 22, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.54 (23 to 26.4)	Check Again at 0900
0900	23.33 (23 to 25.9)	Check Again at 1100
1100	25.34 (23 to 25.4)	Check Again at 1200
1200	25.28 (23 to 25.3)	Check Again at 1400
1400	25.65 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	19.53	River Temp Sang Run @700		
T9	19.46	River Temp Sang Run @900		
T11	20.44	River Temp Sang Run @1100		
T12	21.29	River Temp Sang Run @1200		
T14	23.52	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	95.30	River Flow at Oakland		

John Grij
RSJ 1430

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

68.5 = CFS River Flow at Oakland

August 23, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	68.50	River Flow at Oakland		

WWR

1100 - 1400

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

54 = CFS River Flow at Oakland

August 24, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.71 (23 to 26.4)	Check Again at 0900
0900	24.33 (23 to 25.9)	Check Again at 1100
1100	25.60 (23 to 25.4)	Release at 1130 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	20.13	River Temp Sang Run @700		
T9	20.03	River Temp Sang Run @900		
T11	21.13	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	54.00	River Flow at Oakland		

WWR FROM 1130 - 1330

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

57.9 = CFS River Flow at Oakland

August 25, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.85 (23 to 26.4)	Check Again at 0900
0900	24.34 (23 to 25.9)	Check Again at 1100
1100	26.01 (23 to 25.4)	Release at 1130 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	20.46	River Temp Sang Run @700		
T9	20.25	River Temp Sang Run @900		
T11	21.46	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	57.90	River Flow at Oakland		

WWR 1130-1330 e A

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

44.8 = CFS River Flow at Oakland

August 26, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.00 (23 to 26.4)	Check Again at 0900
0900	24.56 (23 to 25.9)	Check Again at 1100
1100	25.59 (23 to 25.4)	Release at 1130 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	20.94	River Temp Sang Run @700		
T9	20.70	River Temp Sang Run @900		
T11	21.72	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	44.80	River Flow at Oakland		

1130 - 1330 WWR *EF*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN Simulate a Range of

38.2 = CFS River Flow at Oakland

August 27, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	38.20	River Flow at Oakland		

WWR 11-14



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN Simulate a Range of

36.6 = CFS River Flow at Oakland

August 28, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	36.60	River Flow at Oakland		

WWR 1100-1400



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN Simulate a Range of

30.7 = CFS River Flow at Oakland

August 29, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.16 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	20.48	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	30.70	River Flow at Oakland		

TER 1100 - 1300



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

28 = CFS River Flow at Oakland

August 30, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp
0900	(23 to 25.9)	Input 0700 SANG RUN Temp
1100	(23 to 25.4)	Input 0700 SANG RUN Temp
1200	(23 to 25.3)	Input 0700 SANG RUN Temp
1400	(23 to 25.2)	Input 0700 SANG RUN Temp
1500		Input 0700 SANG RUN Temp

Scheduled white water release 1100-1130
Jed

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	28.00	River Flow at Oakland		

[Signature] 8/30

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a

80.3 = CFS River Flow at Oakland

August 31, 2021

Print Info

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.55 (23 to 26.4)	Check Again at 0900
0900	21.85 (23 to 25.9)	Check Again at 1100
1100	22.89 (23 to 25.4)	Check Again at 1200
1200	22.88 (23 to 25.3)	Check Again at 1400
1400	22.64 (23 to 25.2)	Check Again at 1500
1500	22.82	Check Again Tomorrow at 0700

Tair °C	19.44	Air Temp, Elkins WV - Degree C	67	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.86	River Temp Sang Run @700		
T9	20.82	River Temp Sang Run @900		
T11	21.17	River Temp Sang Run @1100		
T12	21.51	River Temp Sang Run @1200		
T14	22.11	River Temp Sang Run @1400		
T15	22.37	River Temp Sang Run @1500		
Q	80.30	River Flow at Oakland		

[Handwritten Signature]
 Jake Hazard
 JH

Sang Run Temperature Recorder Data –
August 2021

Station Name: Sangrun

Date and Time	Temperature, C°
08/01/21 00:00:00	20.01
08/01/21 00:15:00	19.96
08/01/21 00:30:00	19.94
08/01/21 00:45:00	19.91
08/01/21 01:00:00	19.86
08/01/21 01:15:00	19.82
08/01/21 01:30:00	19.77
08/01/21 01:45:00	19.70
08/01/21 02:00:00	19.65
08/01/21 02:15:00	19.63
08/01/21 02:30:00	19.58
08/01/21 02:45:00	19.53
08/01/21 03:00:00	19.48
08/01/21 03:15:00	19.46
08/01/21 03:30:00	19.41
08/01/21 03:45:00	19.37
08/01/21 04:00:00	19.32
08/01/21 04:15:00	19.37
08/01/21 04:30:00	19.25
08/01/21 04:45:00	19.20
08/01/21 05:00:00	19.17
08/01/21 05:15:00	19.15
08/01/21 05:30:00	19.10
08/01/21 05:45:00	19.08
08/01/21 06:00:00	19.06
08/01/21 06:15:00	19.03
08/01/21 06:30:00	18.98
08/01/21 06:45:00	18.96
08/01/21 07:00:00	18.96
08/01/21 07:15:00	18.94
08/01/21 07:30:00	18.89
08/01/21 07:45:00	18.94
08/01/21 08:00:00	18.91
08/01/21 08:15:00	18.98
08/01/21 08:30:00	18.96
08/01/21 08:45:00	19.03
08/01/21 09:00:00	19.15
08/01/21 09:15:00	19.25
08/01/21 09:30:00	19.32
08/01/21 09:45:00	19.39
08/01/21 10:00:00	19.46
08/01/21 10:15:00	19.51
08/01/21 10:30:00	19.60
08/01/21 10:45:00	19.65
08/01/21 11:00:00	19.75
08/01/21 11:15:00	19.89
08/01/21 11:30:00	20.20

08/01/21 11:45:00	20.36
08/01/21 12:00:00	20.48
08/01/21 12:15:00	20.65
08/01/21 12:30:00	20.91
08/01/21 12:45:00	21.15
08/01/21 13:00:00	21.32
08/01/21 13:15:00	21.70
08/01/21 13:30:00	21.94
08/01/21 13:45:00	22.32
08/01/21 14:00:00	22.49
08/01/21 14:15:00	22.61
08/01/21 14:30:00	22.90
08/01/21 14:45:00	23.21
08/01/21 15:00:00	23.40
08/01/21 15:15:00	23.52
08/01/21 15:30:00	23.79
08/01/21 15:45:00	23.71
08/01/21 16:00:00	23.71
08/01/21 16:15:00	23.66
08/01/21 16:30:00	23.66
08/01/21 16:45:00	23.66
08/01/21 17:00:00	23.76
08/01/21 17:15:00	23.76
08/01/21 17:30:00	23.86
08/01/21 17:45:00	23.98
08/01/21 18:00:00	23.91
08/01/21 18:15:00	23.81
08/01/21 18:30:00	23.79
08/01/21 18:45:00	23.71
08/01/21 19:00:00	23.57
08/01/21 19:15:00	23.42
08/01/21 19:30:00	23.28
08/01/21 19:45:00	23.16
08/01/21 20:00:00	23.04
08/01/21 20:15:00	22.94
08/01/21 20:30:00	22.70
08/01/21 20:45:00	22.58
08/01/21 21:00:00	22.37
08/01/21 21:15:00	22.23
08/01/21 21:30:00	22.08
08/01/21 21:45:00	21.94
08/01/21 22:00:00	21.82
08/01/21 22:15:00	21.65
08/01/21 22:30:00	21.53
08/01/21 22:45:00	21.44
08/01/21 23:00:00	21.27
08/01/21 23:15:00	21.13
08/01/21 23:30:00	20.96
08/01/21 23:45:00	20.84

08/02/21 00:00:00	20.67
08/02/21 00:15:00	20.53
08/02/21 00:30:00	20.39
08/02/21 00:45:00	20.22
08/02/21 01:00:00	20.08
08/02/21 01:15:00	19.96
08/02/21 01:30:00	19.82
08/02/21 01:45:00	19.70
08/02/21 02:00:00	19.53
08/02/21 02:15:00	19.44
08/02/21 02:30:00	19.29
08/02/21 02:45:00	19.20
08/02/21 03:00:00	19.06
08/02/21 03:15:00	18.96
08/02/21 03:30:00	18.87
08/02/21 03:45:00	18.77
08/02/21 04:00:00	18.65
08/02/21 04:15:00	18.51
08/02/21 04:30:00	18.41
08/02/21 04:45:00	18.34
08/02/21 05:00:00	18.25
08/02/21 05:15:00	18.15
08/02/21 05:30:00	18.10
08/02/21 05:45:00	18.01
08/02/21 06:00:00	17.94
08/02/21 06:15:00	17.87
08/02/21 06:30:00	17.82
08/02/21 06:45:00	17.77
08/02/21 07:00:00	17.70
08/02/21 07:15:00	17.65
08/02/21 07:30:00	17.65
08/02/21 07:45:00	17.65
08/02/21 08:00:00	17.63
08/02/21 08:15:00	17.63
08/02/21 08:30:00	17.61
08/02/21 08:45:00	17.65
08/02/21 09:00:00	17.72
08/02/21 09:15:00	17.94
08/02/21 09:30:00	18.08
08/02/21 09:45:00	18.15
08/02/21 10:00:00	18.18
08/02/21 10:15:00	18.37
08/02/21 10:30:00	18.53
08/02/21 10:45:00	18.91
08/02/21 11:00:00	19.20
08/02/21 11:15:00	19.29
08/02/21 11:30:00	19.34
08/02/21 11:45:00	19.67
08/02/21 12:00:00	19.75

08/02/21 12:15:00	20.08
08/02/21 12:30:00	20.39
08/02/21 12:45:00	20.53
08/02/21 13:00:00	20.51
08/02/21 13:15:00	20.60
08/02/21 13:30:00	19.22
08/02/21 13:45:00	18.10
08/02/21 14:00:00	17.89
08/02/21 14:15:00	17.84
08/02/21 14:30:00	17.94
08/02/21 14:45:00	18.01
08/02/21 15:00:00	18.08
08/02/21 15:15:00	18.06
08/02/21 15:30:00	18.08
08/02/21 15:45:00	18.27
08/02/21 16:00:00	18.53
08/02/21 16:15:00	18.84
08/02/21 16:30:00	19.13
08/02/21 16:45:00	19.34
08/02/21 17:00:00	19.53
08/02/21 17:15:00	19.72
08/02/21 17:30:00	19.91
08/02/21 17:45:00	20.06
08/02/21 18:00:00	20.17
08/02/21 18:15:00	20.27
08/02/21 18:30:00	20.36
08/02/21 18:45:00	20.41
08/02/21 19:00:00	20.39
08/02/21 19:15:00	20.32
08/02/21 19:30:00	20.25
08/02/21 19:45:00	20.17
08/02/21 20:00:00	20.06
08/02/21 20:15:00	19.94
08/02/21 20:30:00	19.82
08/02/21 20:45:00	19.67
08/02/21 21:00:00	19.53
08/02/21 21:15:00	19.34
08/02/21 21:30:00	19.15
08/02/21 21:45:00	18.98
08/02/21 22:00:00	18.82
08/02/21 22:15:00	18.65
08/02/21 22:30:00	18.53
08/02/21 22:45:00	18.37
08/02/21 23:00:00	18.30
08/02/21 23:15:00	18.18
08/02/21 23:30:00	18.06
08/02/21 23:45:00	17.99
08/03/21 00:00:00	17.89
08/03/21 00:15:00	17.82

08/03/21 00:30:00	17.75
08/03/21 00:45:00	17.68
08/03/21 01:00:00	17.61
08/03/21 01:15:00	17.56
08/03/21 01:30:00	17.46
08/03/21 01:45:00	17.42
08/03/21 02:00:00	17.34
08/03/21 02:15:00	17.27
08/03/21 02:30:00	17.20
08/03/21 02:45:00	17.13
08/03/21 03:00:00	17.06
08/03/21 03:15:00	17.03
08/03/21 03:30:00	16.96
08/03/21 03:45:00	16.89
08/03/21 04:00:00	16.87
08/03/21 04:15:00	16.82
08/03/21 04:30:00	16.75
08/03/21 04:45:00	16.70
08/03/21 05:00:00	16.61
08/03/21 05:15:00	16.61
08/03/21 05:30:00	16.58
08/03/21 05:45:00	16.51
08/03/21 06:00:00	16.49
08/03/21 06:15:00	16.44
08/03/21 06:30:00	16.37
08/03/21 06:45:00	16.32
08/03/21 07:00:00	16.27
08/03/21 07:15:00	16.22
08/03/21 07:30:00	16.15
08/03/21 07:45:00	16.15
08/03/21 08:00:00	16.13
08/03/21 08:15:00	16.13
08/03/21 08:30:00	16.15
08/03/21 08:45:00	16.22
08/03/21 09:00:00	16.25
08/03/21 09:15:00	16.34
08/03/21 09:30:00	16.44
08/03/21 09:45:00	16.53
08/03/21 10:00:00	16.65
08/03/21 10:15:00	16.92
08/03/21 10:30:00	17.15
08/03/21 10:45:00	17.46
08/03/21 11:00:00	17.72
08/03/21 11:15:00	17.99
08/03/21 11:30:00	18.39
08/03/21 11:45:00	18.77
08/03/21 12:00:00	19.01
08/03/21 12:15:00	19.20
08/03/21 12:30:00	19.37

08/03/21 12:45:00	19.44
08/03/21 13:00:00	19.48
08/03/21 13:15:00	19.58
08/03/21 13:30:00	19.67
08/03/21 13:45:00	19.79
08/03/21 14:00:00	19.86
08/03/21 14:15:00	20.25
08/03/21 14:30:00	20.22
08/03/21 14:45:00	20.27
08/03/21 15:00:00	20.32
08/03/21 15:15:00	20.29
08/03/21 15:30:00	20.34
08/03/21 15:45:00	20.41
08/03/21 16:00:00	20.53
08/03/21 16:15:00	20.60
08/03/21 16:30:00	20.63
08/03/21 16:45:00	20.63
08/03/21 17:00:00	20.36
08/03/21 17:15:00	20.20
08/03/21 17:30:00	20.22
08/03/21 17:45:00	20.22
08/03/21 18:00:00	20.06
08/03/21 18:15:00	20.03
08/03/21 18:30:00	20.08
08/03/21 18:45:00	20.01
08/03/21 19:00:00	20.06
08/03/21 19:15:00	20.08
08/03/21 19:30:00	20.03
08/03/21 19:45:00	20.01
08/03/21 20:00:00	19.94
08/03/21 20:15:00	19.89
08/03/21 20:30:00	19.86
08/03/21 20:45:00	19.86
08/03/21 21:00:00	19.86
08/03/21 21:15:00	19.84
08/03/21 21:30:00	19.79
08/03/21 21:45:00	19.75
08/03/21 22:00:00	19.72
08/03/21 22:15:00	19.70
08/03/21 22:30:00	19.63
08/03/21 22:45:00	19.58
08/03/21 23:00:00	19.48
08/03/21 23:15:00	19.46
08/03/21 23:30:00	19.37
08/03/21 23:45:00	19.32
08/04/21 00:00:00	19.25
08/04/21 00:15:00	19.15
08/04/21 00:30:00	19.10
08/04/21 00:45:00	19.03

08/04/21 01:00:00	18.94
08/04/21 01:15:00	18.84
08/04/21 01:30:00	18.77
08/04/21 01:45:00	18.68
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08/30/21 20:05:00	20.51
08/30/21 20:10:00	20.48
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08/30/21 20:45:00	20.41
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08/30/21 20:55:00	20.39
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08/31/21 07:00:00	20.86
08/31/21 07:05:00	20.84
08/31/21 07:10:00	20.84
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08/31/21 13:10:00	21.82
08/31/21 13:15:00	21.84
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08/31/21 13:30:00	21.94
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08/31/21 15:35:00	22.54
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08/31/21 15:45:00	22.58
08/31/21 15:50:00	22.63
08/31/21 15:55:00	22.68
08/31/21 16:00:00	22.73
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08/31/21 16:15:00	22.82
08/31/21 16:20:00	22.85
08/31/21 16:25:00	22.87
08/31/21 16:30:00	22.90
08/31/21 16:35:00	22.92
08/31/21 16:40:00	22.94
08/31/21 16:45:00	22.97

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08/31/21 23:25:00	21.70
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08/31/21 23:35:00	21.68
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08/31/21 23:50:00	21.60
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