

Brookfield

DEEP CREEK STATION

**MARYLAND WATER APPROPRIATION
PERMIT**

NO. GA1992S009 (08)

TEMPERATURE MONITORING REPORT

AUGUST 2015

Brookfield

Brookfield Renewable Energy Group
Atlantic Operations
Brookfield Renewable Power Piney & Deep Creek, LLC
Deep Creek Station
14 River View Terrace
Oakland, MD 21550

Phone: 301-387-6616
Fax: 301-387-5809

Via USP Ground

September 2, 2015

Mr. John Grace Chief
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 (08)
Temperature Monitoring at the Sang Run Bridge on the Youghiogheny River
August 2015**

Dear Mr. Grace:

Temperature in the Youghiogheny River at the Sang Run Bridge temperature monitor exceeded 25°C on three occasions in August. The attached Deep Creek Station Exceedance Table and the Summary of Excursions provide additional details.

TERs were conducted on August 2, 4, 5, 9 and 16. Per the Water Appropriation and Use Permit issued on June 17, 2011, TERs were not conducted on regularly scheduled whitewater release days or when river flows exceeded 150 cfs.

The Temperature Enhancement Protocol Operating Log sheets for August 2015 and the daily temperature monitor readings are attached for your review. Please contact me at 301-387-6616 ext. 108 or by email at randy.garletts@brookfieldrenewable.com if you have any questions about this submittal.

Sincerely,



Randy Garletts
Compliance Specialist

Attachment: August 2015 Sang Run Temperature Report

cc: M. Olson (Brookfield)
M. Stanley (Brookfield)
B. Hudnall (Brookfield)

**DEEP CREEK STATION TEMPERATURE
EXCEEDANCE TABLE August 2015**

EXCEEDANCE $\geq 25^{\circ}\text{C}$ AT SANG RUN TEMPERATURE PROBE

DATE	DURATION	MAXIMUM
August 2, 2015	16:10 – 16:20	25.18
August 5, 2015	15:00 – 16:40	26.01
August 9, 2015	15:30 – 15:40	25.01

**Summary of Temperature Excursions
August 1, 2015 to August 31, 2015**

Date	Duration	Max Temp (°C)	Cause	Remarks
August 2, 2015	0 hours 10 minutes	25.18	Model Uncertainty	The temperature protocol conducted on Sunday, August 2 called for a one hour release ASAP not later than 14:30. A release using both units at full gate opening was made from 14:00 - 15:00.
August 5, 2015	1 hours 40 minutes	26.01	Model Uncertainty	The temperature protocol conducted on Wednesday, August 5 called for a one hour release ASAP not later than 14:30. A release using both units at full gate opening was made from 14:30 - 15:30.
August 9, 2015	0 hours 10 minutes	25.01	Model Uncertainty	The temperature protocol conducted on Sunday, August 9 called for a one hour release ASAP not later than 14:30. A release using both units at full gate opening was made from 14:00 - 15:00.

**Temperature Enhancement Protocol Operating Log
Sheets – August 2015**

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

38 = CFS River Flow at Oakland

August 1, 2015

Print Info for

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	9	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	38.00	River Flow at Oakland		

White Water Release.

Operator: 

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

August 2, 2015

Simulate a R

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	25.49 (23 to 25.9)	Check Again at 1100
1100	24.00 (23 to 25.4)	Check Again at 1200
1200	23.79 (23 to 25.3)	Check Again at 1400
1400	25.20 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	-	-

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	17.70	River Temp Sang Run @700		
T9	17.80	River Temp Sang Run @900		
T11	18.50	River Temp Sang Run @1100		
T12	19.20	River Temp Sang Run @1200		
T14	22.40	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	33.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

30 = CFS River Flow at Oakland

August 3, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.34 (23 to 26.4)	Check Again at 0900
0900	25.33 (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	--	--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.60	River Temp Sang Run @700		
T9	17.80	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	30.00	River Flow at Oakland		

John M. Dent
R. McLean

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

33 = CFS River Flow at Oakland

August 4, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.82 (23 to 26.4)	Check Again at 0900
0900	25.05 (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	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	19.50	River Temp Sang Run @700		
T9	19.60	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	33.00	River Flow at Oakland		

Jay M. O'Neil
R. Melan 8/04/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

68 = CFS River Flow at Oakland

August 5, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.35 (23 to 26.4)	Check Again at 0900
0900	24.59 (23 to 25.9)	Check Again at 1100
1100	25.11 (23 to 25.4)	Check Again at 1200
1200	24.91 (23 to 25.3)	Check Again at 1400
1400	24.73 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	19.30	River Temp Sang Run @700		
T9	19.50	River Temp Sang Run @900		
T11	20.50	River Temp Sang Run @1100		
T12	21.20	River Temp Sang Run @1200		
T14	23.70	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	68.00	River Flow at Oakland		

Jay M. O'Neil
R. Nelson 8/5/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

36 = CFS River Flow at Oakland

August 6, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.85 (23 to 26.4)	Check Again at 0900
0900	22.82 (23 to 25.9)	Check Again at 1100
1100	21.85 (23 to 25.4)	Check Again at 1200
1200	21.38 (23 to 25.3)	Check Again at 1400
1400	20.53 (23 to 25.2)	Check Again at 1500
1500	20.33	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.40	River Temp Sang Run @700		
T9	18.40	River Temp Sang Run @900		
T11	18.70	River Temp Sang Run @1100		
T12	18.70	River Temp Sang Run @1200		
T14	19.10	River Temp Sang Run @1400		
T15	19.30	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

Jay M. O'D

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

41 = CFS River Flow at Oakland

August 7, 2015

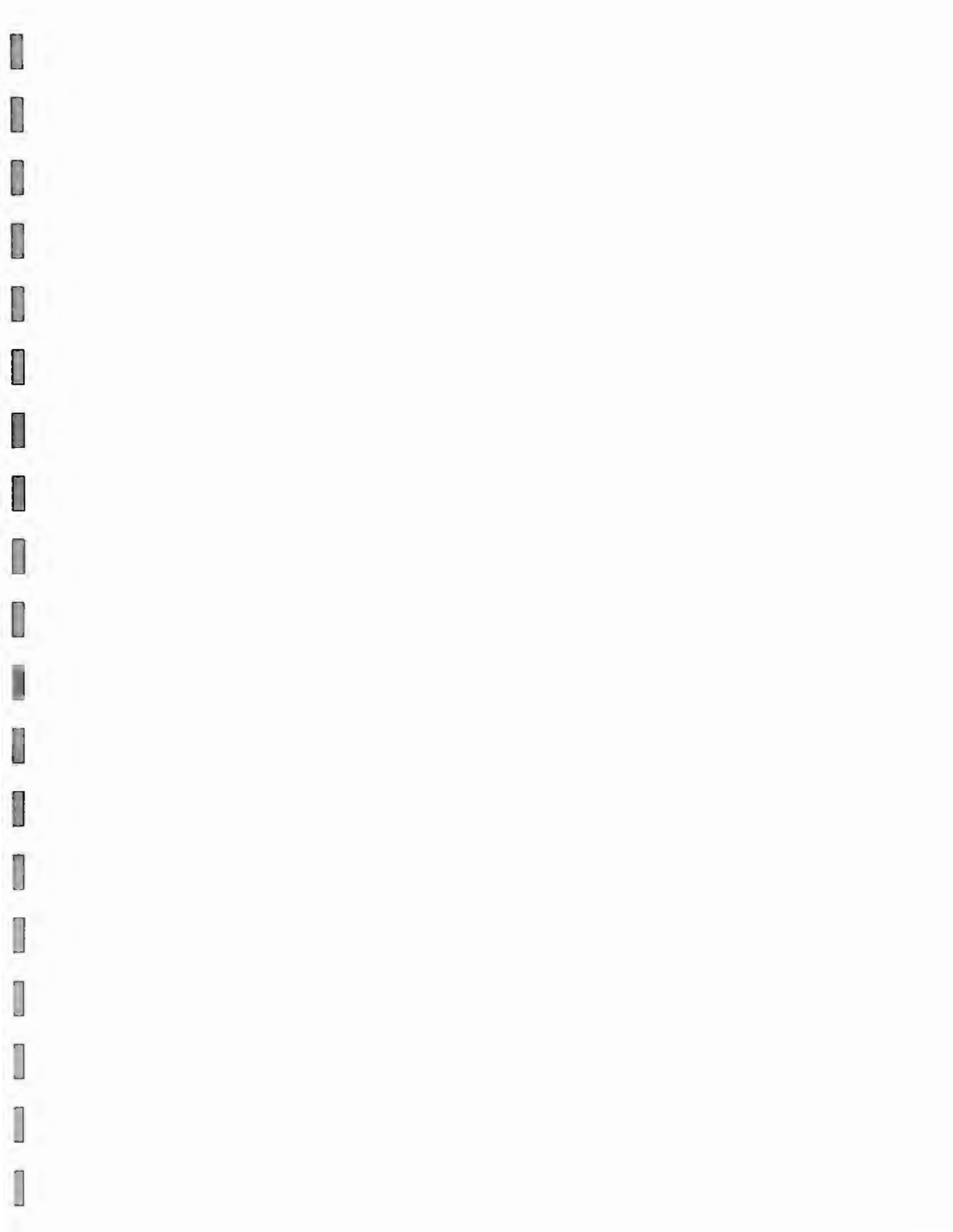
Print Info for file

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

WHITE
WATER
RELEASE

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	64	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	41.00	River Flow at Oakland		

OPERATOR: *df m o p*



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

38 = CFS River Flow at Oakland

August 8, 2015

Print info for file

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

WHITE
WATER
RELEASE

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	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	38.00	River Flow at Oakland		

OPERATOR: *DL M...EQ*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

52 = CFS River Flow at Oakland

August 9, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.42 (23 to 26.4)	Check Again at 0900
0900	23.44 (23 to 25.9)	Check Again at 1100
1100	24.88 (23 to 25.4)	Check Again at 1200
1200	24.77 (23 to 25.3)	Check Again at 1400
1400	23.47 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	--	--

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.20	River Temp Sang Run @700		
T9	18.50	River Temp Sang Run @900		
T11	20.10	River Temp Sang Run @1100		
T12	21.00	River Temp Sang Run @1200		
T14	23.30	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

OPERATOR: *D. M. Lee*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rr

36 = CFS River Flow at Oakland

August 10, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.59 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Input 0900 SANG RUN Temp
1100	(23 to 25.4)	Input 0900 SANG RUN Temp
1200	(23 to 25.3)	Input 0900 SANG RUN Temp
1400	(23 to 25.2)	Input 0900 SANG RUN Temp
1500		Input 0900 SANG RUN Temp

Tair °C	28.33	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	19.10	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	36.00	River Flow at Oakland

83
HAZE

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

WHITE WATER RELEASE
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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

54 = CFS River Flow at Oakland

August 11, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.42 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Input 0900 SANG RUN Temp
1100	(23 to 25.4)	Input 0900 SANG RUN Temp
1200	(23 to 25.3)	Input 0900 SANG RUN Temp
1400	(23 to 25.2)	Input 0900 SANG RUN Temp
1500		Input 0900 SANG RUN Temp

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.70	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	54.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

62 = CFS River Flow at Oakland

August 12, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.69 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Input 0900 SANG RUN Temp
1100	(23 to 25.4)	Input 0900 SANG RUN Temp
1200	(23 to 25.3)	Input 0900 SANG RUN Temp
1400	(23 to 25.2)	Input 0900 SANG RUN Temp
1500		Input 0900 SANG RUN Temp

Tair °C	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	OVRCAST	Cloud Cover, Elkins WV
T7	19.00	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	62.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

41 = CFS River Flow at Oakland

August 13, 2015

Simulate a R:

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.70 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Print Info for file

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	18.80	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	41.00	River Flow at Oakland		

whk

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

32 = CFS River Flow at Oakland

August 14, 2015

Print Info for

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	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	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	32.00	River Flow at Oakland		

WWR *Boyer*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

26 = CFS River Flow at Oakland

August 15, 2015

Print Info for

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	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	9	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	26.00	River Flow at Oakland		

WR 

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

24 = CFS River Flow at Oakland

August 16, 2015

Simulate a R

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.64 (23 to 26.4)	Check Again at 0900
0900	24.41 (23 to 25.9)	Check Again at 1100
1100	25.17 (23 to 25.4)	Check Again at 1200
1200	25.23 (23 to 25.3)	Check Again at 1400
1400	28.36 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	-	-

Print Info for

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.60	River Temp Sang Run @700		
T9	17.80	River Temp Sang Run @900		
T11	19.60	River Temp Sang Run @1100		
T12	20.80	River Temp Sang Run @1200		
T14	23.00	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

20 = CFS River Flow at Oakland

August 17, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp <i>WHITE WATER RELEASE</i>
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	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	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	20.00	River Flow at Oakland		

Df meap

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ri

22 = CFS River Flow at Oakland

August 18, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.64 (23 to 26.4)	Check Again at 0900
0900	24.49 (23 to 25.9)	Check Again at 1100
1100	24.12 (23 to 25.4)	Check Again at 1200
1200	23.82 (23 to 25.3)	Check Again at 1400
1400	23.76 (23 to 25.2)	Check Again at 1500
1500	23.80	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.80	River Temp Sang Run @700		
T9	19.70	River Temp Sang Run @900		
T11	20.50	River Temp Sang Run @1100		
T12	20.90	River Temp Sang Run @1200		
T14	22.20	River Temp Sang Run @1400		
T15	22.80	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

August 19, 2015

Simulate a Re

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.45 (23 to 26.4)	Check Again at 0900
0900	23.41 (23 to 25.9)	Check Again at 1100
1100	24.84 (23 to 25.4)	Check Again at 1200
1200	25.29 (23 to 25.3)	Check Again at 1400
1400	23.90 (23 to 25.2)	Check Again at 1500
1500	24.02	Check Again Tomorrow at 0700

Print Info for file

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.80	River Temp Sang Run @ 700		
T9	19.90	River Temp Sang Run @ 900		
T11	21.10	River Temp Sang Run @ 1100		
T12	22.30	River Temp Sang Run @ 1200		
T14	22.80	River Temp Seng Run @ 1400		
T15	23.30	River Temp Sang Run @ 1500		
Q	56.00	River Flow at Oakland		

Handwritten signature in blue ink.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

98 = CFS River Flow at Oakland

August 20, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.76 (23 to 26.4)	Check Again at 0900
0900	21.83 (23 to 25.9)	Check Again at 1100
1100	24.10 (23 to 25.4)	Check Again at 1200
1200	24.12 (23 to 25.3)	Check Again at 1400
1400	24.38 (23 to 25.2)	Check Again at 1500
1500	24.53	Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.40	River Temp Sang Run @700		
T9	20.40	River Temp Sang Run @900		
T11	21.10	River Temp Sang Run @1100		
T12	21.70	River Temp Sang Run @1200		
T14	23.10	River Temp Sang Run @1400		
T15	23.70	River Temp Sang Run @1500		
Q	98.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

133 = CFS River Flow at Oakland

August 21, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (R 1) (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	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	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	133.00	River Flow at Oakland		

white water release
 by MOWD 8/21/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

58 = CFS River Flow at Oakland

August 22, 2015

Print Info for file

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	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	9	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	58.00	River Flow at Oakland		

white water release

Jay McQuinn
 R. McQuinn

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

38 = CFS River Flow at Oakland

August 23, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.90 (23 to 26.4)	Check Again at 0900
0900	24.59 (23 to 25.9)	Check Again at 1100
1100	24.15 (23 to 25.4)	Check Again at 1200
1200	23.81 (23 to 25.3)	Check Again at 1400
1400	24.71 (23 to 25.2)	Check Again at 1500
1500	24.05	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	17.30	River Temp Sang Run @ 700		
T9	17.30	River Temp Sang Run @ 900		
T11	18.40	River Temp Sang Run @ 1100		
T12	19.10	River Temp Sang Run @ 1200		
T14	21.90	River Temp Sang Run @ 1400		
T15	22.40	River Temp Sang Run @ 1500		
Q	38.00	River Flow at Oakland		

8-23-15
 Jay M. O'Connell
 R. McClan 8/23/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

30 = CFS River Flow at Oakland

August 24, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Input 0700 SANG RUN Temp <i>WHITE WATER RELEASE</i>
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	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	100	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	30.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

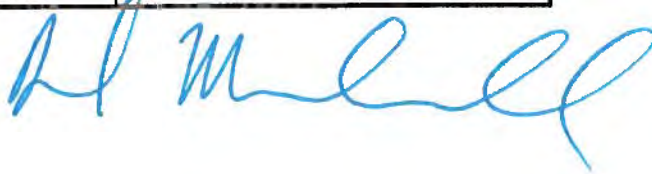
27 = CFS River Flow at Oakland

August 25, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.75 (23 to 26.4)	Check Again at 0900
0900	25.48 (23 to 25.9)	Check Again at 1100
1100	24.69 (23 to 25.4)	Check Again at 1200
1200	24.59 (23 to 25.3)	Check Agein at 1400
1400	23.72 (23 to 25.2)	Check Again at 1500
1500	23.72	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.90	River Temp Sang Run @700		
T9	16.90	River Temp Sang Run @900		
T11	18.30	River Temp Sang Run @1100		
T12	19.40	River Temp Sang Run @1200		
T14	21.30	River Temp Sang Run @1400		
T15	22.20	River Temp Sang Run @1500		
Q	27.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

25 = CFS River Flow at Oakland

August 26, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.68 (23 to 26.4)	Check Again at 0900
0900	25.27 (23 to 25.9)	Check Again at 1100
1100	23.54 (23 to 25.4)	Check Again at 1200
1200	22.82 (23 to 25.3)	Check Again at 1400
1400	20.73 (23 to 25.2)	Check Again at 1500
1500	20.41	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.70	River Temp Sang Run @700		
T9	16.60	River Temp Sang Run @900		
T11	17.30	River Temp Sang Run @1100		
T12	17.60	River Temp Sang Run @1200		
T14	18.30	River Temp Sang Run @1400		
T15	18.80	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

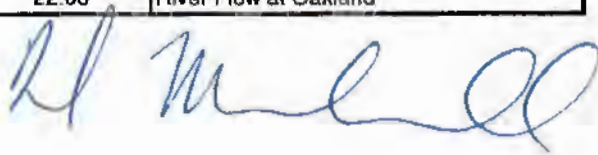
22 = CFS River Flow at Oakland

August 27, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.05 (23 to 26.4)	Check Again at 0900
0900	24.73 (23 to 25.9)	Check Again at 1100
1100	24.13 (23 to 25.4)	Check Again at 1200
1200	23.85 (23 to 25.3)	Check Again at 1400
1400	21.51 (23 to 25.2)	Check Again at 1500
1500	21.30	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	15.90	River Temp Sang Run @700		
T9	15.90	River Temp Sang Run @900		
T11	17.50	River Temp Sang Run @1100		
T12	18.60	River Temp Sang Run @1200		
T14	19.40	River Temp Sang Run @1400		
T15	19.90	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

21 = CFS River Flow at Oakland

August 28, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.20 (23 to 26.4)	Check Again at 0900
0900	23.70 (23 to 25.9)	Check Again at 1100
1100	23.15 (23 to 25.4)	Check Again at 1200
1200	22.66 (23 to 25.3)	Check Again at 1400
1400	21.15 (23 to 25.2)	Check Again at 1500
1500	21.34	Check Again Tomorrow at 0700

Tair C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	14.90	River Temp Sang Run @700		
T9	14.80	River Temp Sang Run @900		
T11	16.40	River Temp Sang Run @1100		
T12	17.20	River Temp Sang Run @1200		
T14	18.60	River Temp Sang Run @1400		
T15	19.60	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

19 = CFS River Flow at Oakland

August 29, 2015

Print Info for file

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	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	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	19.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Rr

17 = CFS River Flow at Oakland

August 30, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.76 (23 to 26.4)	Check Again at 0900
0900	24.23 (23 to 25.9)	Check Again at 1100
1100	24.15 (23 to 25.4)	Check Again at 1200
1200	24.01 (23 to 25.3)	Check Again at 1400
1400	24.07 (23 to 25.2)	Check Again at 1500
1500	23.47	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	17.00	River Temp Sang Run @700		
T9	16.80	River Temp Sang Run @900		
T11	18.30	River Temp Sang Run @1100		
T12	19.30	River Temp Sang Run @1200		
T14	21.60	River Temp Sang Run @1400		
T15	22.00	River Temp Sang Run @1500		
Q	17.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

16 = CFS River Flow at Oakland

August 31, 2015

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.25 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.00	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	16.00	River Flow at Oakland		

white water release

Jay MO ^{up}

R. McLean 8/7/15

August 2015 Sang Run Temperature Recorder Data

Station Name
Sangrun

7/31/2015	23:50:00	20.79
8/1/2015	0:00:00	20.74
8/1/2015	0:10:00	20.69
8/1/2015	0:20:00	20.64
8/1/2015	0:30:00	20.58
8/1/2015	0:40:00	20.53
8/1/2015	0:50:00	20.48
8/1/2015	1:00:00	20.42
8/1/2015	1:10:00	20.36
8/1/2015	1:20:00	20.32
8/1/2015	1:30:00	20.27
8/1/2015	1:40:00	20.22
8/1/2015	1:50:00	20.18
8/1/2015	2:00:00	20.13
8/1/2015	2:10:00	20.08
8/1/2015	2:20:00	20.03
8/1/2015	2:30:00	19.98
8/1/2015	2:40:00	19.94
8/1/2015	2:50:00	19.91
8/1/2015	3:00:00	19.88
8/1/2015	3:10:00	19.85
8/1/2015	3:20:00	19.82
8/1/2015	3:30:00	19.80
8/1/2015	3:40:00	19.77
8/1/2015	3:50:00	19.75
8/1/2015	4:00:00	19.72
8/1/2015	4:10:00	19.69
8/1/2015	4:20:00	19.67
8/1/2015	4:30:00	19.65
8/1/2015	4:40:00	19.63
8/1/2015	4:50:00	19.61
8/1/2015	5:00:00	19.58
8/1/2015	5:10:00	19.56
8/1/2015	5:20:00	19.54
8/1/2015	5:30:00	19.52
8/1/2015	5:40:00	19.49
8/1/2015	5:50:00	19.47
8/1/2015	6:00:00	19.44
8/1/2015	6:10:00	19.41
8/1/2015	6:20:00	19.38
8/1/2015	6:30:00	19.36
8/1/2015	6:40:00	19.35
8/1/2015	6:50:00	19.34

8/1/2015	7:00:00	19.33
8/1/2015	7:10:00	19.32
8/1/2015	7:20:00	19.30
8/1/2015	7:30:00	19.30
8/1/2015	7:40:00	19.30
8/1/2015	7:50:00	19.32
8/1/2015	8:00:00	19.32
8/1/2015	8:10:00	19.34
8/1/2015	8:20:00	19.36
8/1/2015	8:30:00	19.39
8/1/2015	8:40:00	19.39
8/1/2015	8:50:00	19.43
8/1/2015	9:00:00	19.50
8/1/2015	9:10:00	19.62
8/1/2015	9:20:00	19.74
8/1/2015	9:30:00	19.88
8/1/2015	9:40:00	20.00
8/1/2015	9:50:00	20.12
8/1/2015	10:00:00	20.25
8/1/2015	10:10:00	20.35
8/1/2015	10:20:00	20.47
8/1/2015	10:30:00	20.59
8/1/2015	10:40:00	20.71
8/1/2015	10:50:00	20.77
8/1/2015	11:00:00	20.90
8/1/2015	11:10:00	20.94
8/1/2015	11:20:00	21.07
8/1/2015	11:30:00	21.17
8/1/2015	11:40:00	21.20
8/1/2015	11:50:00	21.22
8/1/2015	12:00:00	21.30
8/1/2015	12:10:00	21.31
8/1/2015	12:20:00	21.55
8/1/2015	12:30:00	21.58
8/1/2015	12:40:00	21.72
8/1/2015	12:50:00	21.77
8/1/2015	13:00:00	21.99
8/1/2015	13:10:00	21.94
8/1/2015	13:20:00	21.60
8/1/2015	13:30:00	19.77
8/1/2015	13:40:00	19.22
8/1/2015	13:50:00	19.24
8/1/2015	14:00:00	19.29
8/1/2015	14:10:00	19.33
8/1/2015	14:20:00	19.32
8/1/2015	14:30:00	19.31

8/1/2015	14:40:00	19.39
8/1/2015	14:50:00	19.39
8/1/2015	15:00:00	19.47
8/1/2015	15:10:00	19.49
8/1/2015	15:20:00	19.50
8/1/2015	15:30:00	19.53
8/1/2015	15:40:00	19.49
8/1/2015	15:50:00	19.44
8/1/2015	16:00:00	19.49
8/1/2015	16:10:00	19.48
8/1/2015	16:20:00	19.57
8/1/2015	16:30:00	19.63
8/1/2015	16:40:00	19.88
8/1/2015	16:50:00	20.03
8/1/2015	17:00:00	20.08
8/1/2015	17:10:00	20.25
8/1/2015	17:20:00	20.37
8/1/2015	17:30:00	20.53
8/1/2015	17:40:00	20.46
8/1/2015	17:50:00	20.72
8/1/2015	18:00:00	20.83
8/1/2015	18:10:00	20.87
8/1/2015	18:20:00	20.86
8/1/2015	18:30:00	20.88
8/1/2015	18:40:00	20.96
8/1/2015	18:50:00	20.89
8/1/2015	19:00:00	20.81
8/1/2015	19:10:00	20.86
8/1/2015	19:20:00	20.78
8/1/2015	19:30:00	20.72
8/1/2015	19:40:00	20.66
8/1/2015	19:50:00	20.60
8/1/2015	20:00:00	20.54
8/1/2015	20:10:00	20.46
8/1/2015	20:20:00	20.36
8/1/2015	20:30:00	20.27
8/1/2015	20:40:00	20.19
8/1/2015	20:50:00	20.13
8/1/2015	21:00:00	20.08
8/1/2015	21:10:00	20.03
8/1/2015	21:20:00	20.02
8/1/2015	21:30:00	19.98
8/1/2015	21:40:00	19.96
8/1/2015	21:50:00	19.95
8/1/2015	22:00:00	19.93
8/1/2015	22:10:00	19.92

8/1/2015	22:20:00	19.90
8/1/2015	22:30:00	19.90
8/1/2015	22:40:00	19.88
8/1/2015	22:50:00	19.87
8/1/2015	23:00:00	19.86
8/1/2015	23:10:00	19.84
8/1/2015	23:20:00	19.83
8/1/2015	23:30:00	19.79
8/1/2015	23:40:00	19.77
8/1/2015	23:50:00	19.73
8/2/2015	0:00:00	19.71
8/2/2015	0:10:00	19.67
8/2/2015	0:20:00	19.62
8/2/2015	0:30:00	19.58
8/2/2015	0:40:00	19.55
8/2/2015	0:50:00	19.49
8/2/2015	1:00:00	19.46
8/2/2015	1:10:00	19.40
8/2/2015	1:20:00	19.35
8/2/2015	1:30:00	19.30
8/2/2015	1:40:00	19.26
8/2/2015	1:50:00	19.21
8/2/2015	2:00:00	19.15
8/2/2015	2:10:00	19.12
8/2/2015	2:20:00	19.10
8/2/2015	2:30:00	19.04
8/2/2015	2:40:00	19.00
8/2/2015	2:50:00	18.94
8/2/2015	3:00:00	18.88
8/2/2015	3:10:00	18.82
8/2/2015	3:20:00	18.78
8/2/2015	3:30:00	18.73
8/2/2015	3:40:00	18.69
8/2/2015	3:50:00	18.63
8/2/2015	4:00:00	18.59
8/2/2015	4:10:00	18.52
8/2/2015	4:20:00	18.48
8/2/2015	4:30:00	18.42
8/2/2015	4:40:00	18.36
8/2/2015	4:50:00	18.29
8/2/2015	5:00:00	18.27
8/2/2015	5:10:00	18.21
8/2/2015	5:20:00	18.15
8/2/2015	5:30:00	18.10
8/2/2015	5:40:00	18.03
8/2/2015	5:50:00	18.00

8/2/2015	6:00:00	17.94
8/2/2015	6:10:00	17.88
8/2/2015	6:20:00	17.85
8/2/2015	6:30:00	17.81
8/2/2015	6:40:00	17.78
8/2/2015	6:50:00	17.72
8/2/2015	7:00:00	17.71
8/2/2015	7:10:00	17.67
8/2/2015	7:20:00	17.62
8/2/2015	7:30:00	17.59
8/2/2015	7:40:00	17.57
8/2/2015	7:50:00	17.55
8/2/2015	8:00:00	17.55
8/2/2015	8:10:00	17.55
8/2/2015	8:20:00	17.61
8/2/2015	8:30:00	17.68
8/2/2015	8:40:00	17.75
8/2/2015	8:50:00	17.76
8/2/2015	9:00:00	17.78
8/2/2015	9:10:00	17.85
8/2/2015	9:20:00	17.91
8/2/2015	9:30:00	17.97
8/2/2015	9:40:00	18.04
8/2/2015	9:50:00	18.09
8/2/2015	10:00:00	18.12
8/2/2015	10:10:00	18.15
8/2/2015	10:20:00	18.20
8/2/2015	10:30:00	18.24
8/2/2015	10:40:00	18.32
8/2/2015	10:50:00	18.43
8/2/2015	11:00:00	18.52
8/2/2015	11:10:00	18.59
8/2/2015	11:20:00	18.69
8/2/2015	11:30:00	18.80
8/2/2015	11:40:00	18.97
8/2/2015	11:50:00	19.13
8/2/2015	12:00:00	19.23
8/2/2015	12:10:00	19.38
8/2/2015	12:20:00	19.58
8/2/2015	12:30:00	19.87
8/2/2015	12:40:00	20.18
8/2/2015	12:50:00	20.48
8/2/2015	13:00:00	20.73
8/2/2015	13:10:00	21.07
8/2/2015	13:20:00	21.33
8/2/2015	13:30:00	21.60

8/2/2015	13:40:00	21.89
8/2/2015	13:50:00	22.16
8/2/2015	14:00:00	22.37
8/2/2015	14:10:00	22.66
8/2/2015	14:20:00	22.94
8/2/2015	14:30:00	23.21
8/2/2015	14:40:00	23.32
8/2/2015	14:50:00	23.71
8/2/2015	15:00:00	23.95
8/2/2015	15:10:00	24.22
8/2/2015	15:20:00	24.42
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8/31/2015	23:50:00	19.27
9/1/2015	0:00:00	19.23

