

**BROOKFIELD RENEWABLE POWER
PINEY & DEEP CREEK, LLC**

Deep Creek Hydroelectric Station

2010 Annual Report

**Maryland Department of the Environment
Water Appropriation and Use Permit No. GA1992S009(07)**

January 2011

Brookfield

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1.0 SUMMARY

Brookfield Renewable Power Piney & Deep Creek, LLC (Brookfield) holds a Water Appropriation and Use Permit (Permit), issued on April 1, 2007, that provides for the continued operation of the Deep Creek Hydroelectric Station. Permit Condition 23 requires Brookfield to submit an annual report to the Maryland Department of the Environment (MDE), which includes data and information as specified in the Permit Conditions listed below:

- Lake level monitoring (Condition 15)
- Temperature monitoring (Condition 16)
- Minimum flow release monitoring (Condition 17)
- Dissolved oxygen (DO) monitoring (Condition 18)
- Releases unsuitable for whitewater recreation (Condition 19)
- Zebra mussel monitoring (Condition 21)

1.1 Lake Level Monitoring

1.1.1 End-of-Month Levels

Appendix A contains daily water level data for 2010 in tabular and graphical format. Reservoir levels did not exceed the desired end-of-month Upper Rule Band (URB). Reservoir levels were below the URB at the end of the month as follows:

TABLE 1 - Lake Level (in feet) Below URB

MONTH OF YEAR	FEET ABOVE (+) or BELOW (-) URB
January	0.0
February	-1.6
March	-0.2
April	-1.0
May	0.0
June	-0.5
July	-1.0
August	-1.2
September	-1.7
October	-1.6
November	-1.5
December	-0.9

1.1.2 Daily Levels

The following describes each daily variance of the URB and Lower Rule Band (LRB). Appendix A provides a graphical and tabular summary of these daily variances. The Deep Creek lake level did not remain between the URB and LRB for all of 2010 as detailed below.

- The Deep Creek lake level was within the URB and LRB between elevations of 2,455.0 feet MSL and 2,457.9 feet MSL from January 1 through January 24.
- The Deep Creek watershed received 0.90 inches of precipitation on January 24, and the lake level rose to 2458.1 on January 25, 0.2 feet above the URB. An additional 1.33 inches fell on January 25, causing the reservoir to rise above the URB by 0.6 feet to an elevation of 2,458.5 on January 26. The lake remained above the URB until January 30, and it was drawn down to 2457.9 on January 31.
- The Deep Creek reservoir remained between the LRB and URB February 1 through February 28; however, an emergency drawdown of the lake started on February 24 to mitigate the risk of overturning the emergency spillway by thick lake ice due to a rapid warm up period that was being forecasted. The record winter snowfall combined with a quick snowmelt was going to exceed the reservoir storage capacity by a significant magnitude before the lake ice melted. Both the dam and spillway were in imminent danger of being crested by rapidly rising water and ice. The drawdown continued into March, and the lake level went below the LRB on March 2 at elevation 2455.8. The lowest lake level occurred on March 12 at 2453.1 feet. On that day, runoff into the lake exceeded the maximum discharge capacity of the generators. The lake level then started a sharp rise, reaching the LRB on March 18 at 2457.1. By this time, the effects of the rapid snowmelt were mitigated, and the lake was being returned to its normal seasonal level in a controlled manner.
- The Deep Creek lake level remained within the URB and LRB elevations from March 19 until May 23. On May 22 and May 23, the watershed received 1.95 inches of rainfall that pushed the level from 2460.9 on May 21 to 2461.3 on May 23. The lake was brought down to 2460.0 on May 29.

- From May 30 to August 7 the lake level was maintained within the URB and LRB; however, the station saw a significant decrease in rainfall starting approximately June 25, and the lake level began a steady decline and went below the LRB on August 8 at elevation 2458.7. Monday and Friday whitewater releases were discontinued effective Monday, August 9 in accordance with Condition 19 of the Permit, but temperature enhancement releases and minimum flow releases continued as provided for in the Permit.
- The drought continued into the fall, and the lake level remained below the LRB until October 4. Scheduled Friday/Saturday whitewater releases continued through this period along with temperature enhancement and minimum flow as needed.
- The lake level remained within the URB and LRB from October 4 until the end of the year.

1.2 Temperature Monitoring

Brookfield monitored water temperature in the Youghiogheny River in accordance with the Deep Creek Station Water Temperature Enhancement Plan (approved June 8, 1996, revised September 2001 and January 2009). The plan was designed to maintain river water temperatures below 25 degrees Celsius (°C) in the Youghiogheny River.

By letters dated July 9, August 5, and September 3, 2010, Brookfield provided the MDE with temperature excursion dates at the Sang Run temperature monitoring station, and an explanation for those excursions. The primary reason for these excursions was due to the inherent unpredictability of the model. This model attempts to predict future temperatures of the Youghiogheny River, based on air temperature readings, cloud cover factor, cloud cover forecast, river flow, and actual water temperature readings. Due to the multitude of parameters used in the predictions, inherent variability in the predicted temperatures exists.

Brookfield released water on 57 days in 2010, 18 of which were a combined with a whitewater release. Temperature enhancement releases occurred on June 2, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, and 30. The July releases occurred on 3, 4, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30. August releases occurred on 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 29, 30, and 31. Combined releases occurred on June 19, 23, 26,

and 30. July combined releases occurred on 3, 5, 9, 10, 16, 17, 19, 23, 24, 26, and 30. August combined releases occurred on 7, 14, and 21.

The temperature enhancement protocol predicted water temperatures in excess of 25°C on June 2 and 19 through 30. July's predicted temperatures in excess of 25°C were 3 through 11 and 14 through 30. August predictions were 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 29, 30, and 31. Appendix B presents the Sang Run temperature excursion dates, the duration of each excursion, an explanation for the excursion, and the maximum temperature for each date, during the period of June 1 through August 31, 2010.

Water temperature at Sang Run reached 25°C or greater on June 2, 27, and 30; July 14, 20, 21, 24, and 28; and on August 15 according to the Sang Run temperature data acquired by Brookfield.

Brookfield did not release water on June 2, June 25, and July 14 in accordance with the Water Temperature Enhancement Plan, as the flow at the Oakland gage was above 150 cubic feet per second (cfs).

Temperature release dates are listed in Table 2, and Appendix B presents results of the temperature monitoring at Sang Run for June through August, and the daily Deep Creek Station Water Temperature Enhancement Plan data sheets.

TABLE 2 – Temperature Enhancement Plan Release Dates

2010 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
June 19	11:00	15:00	130
June 20	10:45	15:00	112
June 21	11:00	15:00	98
June 22	12:30	14:30	85
June 23	11:00	13:15	88
June 24	12:45	14:45	93
June 26	11:00	14:30	130
June 27	12:45	14:45	98
June 28	11:00	14:30	93
June 29	12:00	14:45	85

2010 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
June 30	14:00	14:15	82
July 3	11:00	14:15	36
July 4	11:00	13:00	33
July 5	11:00	14:00	32
July 6	11:00	13:30	29
July 7	11:00	13:00	27
July 8	11:00	15:30	25
July 9	11:00	15:00	25
July 10	11:00	14:15	25
July 11	12:30	14:30	26
July 15	12:30	14:45	90
July 16	11:00	14:15	48
July 17	11:00	14:00	36
July 18	11:00	13:00	36
July 19	11:00	14:30	78
July 20	12:30	14:30	106
July 21	13:00	14:00	70
July 22	11:00	13:00	50
July 23	11:00	14:00	36
July 24	11:00	16:00	29
July 25	11:00	13:00	25
July 26	11:00	15:00	112
July 27	12:30	14:45	48
July 28	12:30	14:45	30
July 29	11:00	13:15	25
July 30	11:00	14:15	26
August 2	11:00	14:15	22
August 3	11:00	13:15	19
August 4	12:30	14:45	19
August 6	11:00	14:00	56
August 7	10:00	13:15	39
August 8	12:30	14:45	24
August 9	11:00	13:00	18
August 10	11:00	13:00	16
August 11	11:00	13:15	15
August 12	11:00	13:00	19
August 13	11:00	13:15	17
August 14	11:00	14:15	18
August 15	12:45	14:45	15
August 16	11:00	13:00	15
August 17	12:30	14:45	16
August 19	12:30	13:30	13
August 20	11:00	13:00	13
August 21	11:00	14:00	13
August 29	11:00	13:00	12

2010 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
August 30	11:00	13:00	10
August 31	13:00	13:00	10

2010 COMBINED TEMPERATURE ENHANCEMENT PLAN AND WHITEWATER RELEASES		
DATE	START TIME	STOP TIME
June 19	11:00	15:00
June 23	11:00	13:15
June 26	11:00	14:30
June 30	14:00	14:15
July 3	11:00	14:15
July 5	11:00	14:00
July 9	11:00	15:00
July 10	11:00	14:15
July 16	11:00	14:15
July 17	11:00	14:00
July 19	11:00	14:30
Jul 23	11:00	14:00
July 24	11:00	16:00
July 26	11:00	15:00
July 30	11:00	14:15
August 7	10:00	13:15
August 14	11:00	14:15
August 21	11:00	14:00

1.3 Minimum Flow Release Monitoring

Brookfield operated the flow bypass in accordance with the Deep Creek Station Flow Bypass Operation Protocol (May 1995, revised September 2001). The flow bypass protocol requires Brookfield to maintain a minimum flow of 40 cfs in the Youghiogheny River immediately downstream of the tailrace. Starting January 1 and continuing through December 31, Brookfield monitored the river flows at the Oakland gage. As required by the protocol, when calculated flows downstream of the tailrace are below 40 cfs, Brookfield may be required to open a bypass valve to release enough water to maintain 40 cfs.

The 2010 water year was a below-average precipitation year.

Brookfield provided bypass flow to the Youghiogheny River below the project tailrace on 80 days.

The table in Appendix C summarizes flow bypass data for July through November 2010, when flows in the Youghiogheny River were less than 26 cfs. Flow data were obtained from the U.S. Geological Survey (USGS) recording at the Oakland gage, direct readings from the Oakland gage, or from the tailrace gage at the station, per guidance provided in the protocol. Valve openings (see Appendix C) were determined from Table 3 of the protocol and were based on station operating status.

1.4 Dissolved Oxygen Monitoring

Brookfield operated the dissolved oxygen (DO) enhancement weir during 2010 in accordance with the Dissolved Oxygen Enhancement Operations and Monitoring Protocol approved by the MDE on January 6, 1995. In June, instantaneous DO measurements ranged from a low of 7.00 mg/L on June 28 to a high of 9.26 mg/L on June 18. In July, instantaneous DO measurements ranged from a low of 3.60 mg/L on July 31 to a high of 7.63 mg/L on July 9. In August, instantaneous DO measurements ranged from a low of 3.13 mg/L on August 2 to a high of 6.75 mg/L on August 2. In September, instantaneous DO measurements ranged from a low of 5.08 mg/L on September 17 to a high of 7.29 mg/L on September 24. The daily average was 6.55 mg/L. All data obtained from DO monitoring in 2010 are included in Appendix D.

1.5 Releases Unsuitable for Whitewater Recreation

Permit Condition 19 outlines several operating rules designed to enhance whitewater boating opportunities in the Youghiogheny River.

Permit Condition 19.A provides a standard whitewater release (WWR) schedule, a special WWR schedule, and a provision that allows Brookfield to combine temperature enhancement releases with scheduled WWR. These conditions apply from April 15 through October 15, annually.

Permit Condition 19.B provides additional operating rules that place conditions on the operations of the Deep Creek facility, based on flows at the Friendsville gage and Deep Creek Lake levels.

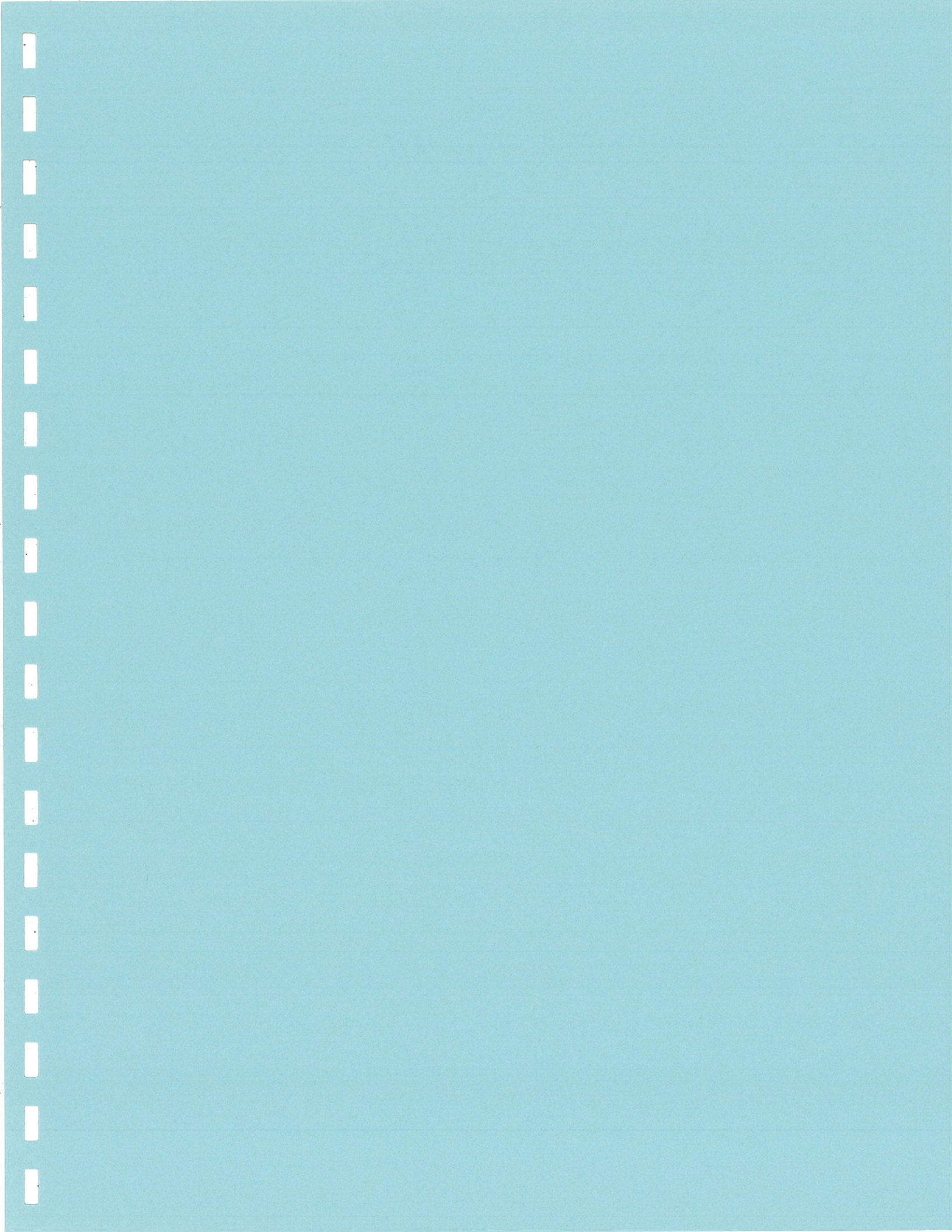
More specifically, Permit Condition 19.B.V allows Brookfield to employ either a “3rd Hour Regulation” or an “All Hour Regulation” approach for plant operations, in addition to the previously referenced conditions.

Additional details of these permit conditions can be found in Appendix E.

There were no releases unsuitable for whitewater recreation during 2011.

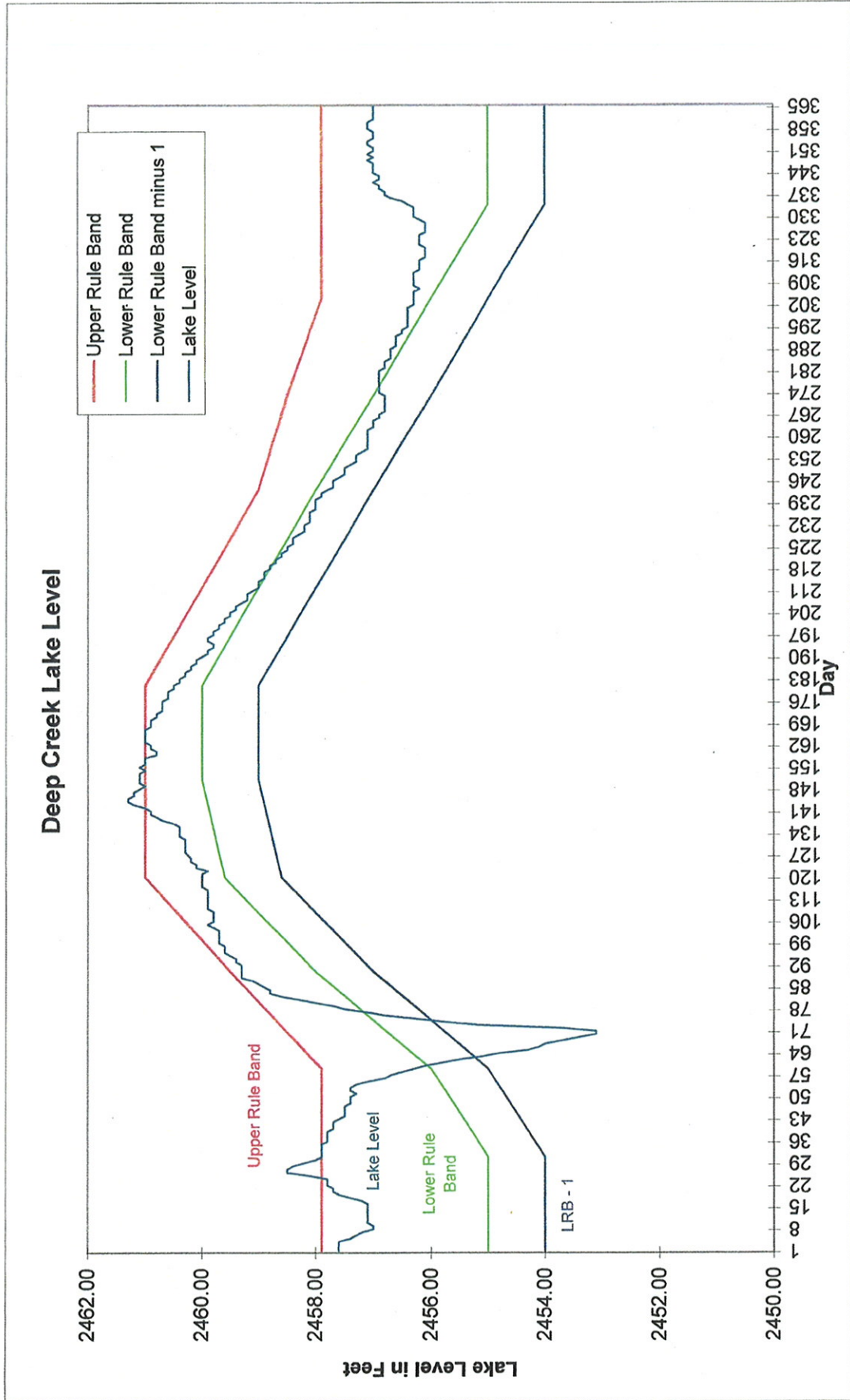
1.6 Zebra Mussel Monitoring

Artificial substrates placed at the station intake area during 2010 showed no signs of zebra mussel infestation. Appendix F contains the 2010 Zebra Mussel Monitoring Report data sheets.



APPENDIX A

**DEEP CREEK LAKE LEVEL GRAPH AND
DEEP CREEK DAILY LAKE LEVEL DATA TABLES**



DEEP CREEK LAKE LEVEL GRAPH - 2010

Deep Creek Daily Lake Level 2010															
Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Jan	1	2457.6	0.20	Feb	1	2458.0	0.00	Mar	1	2456.1	0.25				
	2	2457.6	0.25		2	2457.9	0.10		2	2455.8	0.00				
	3	2457.6	0.08		3	2457.9	0.08		3	2455.5	0.07				
	4	2457.6	0.04		4	2457.9	0.00		4	2455.1	0.00				
	5	2457.4	0.10		5	2457.8	0.60		5	2454.8	0.00				
	6	2457.3	0.09		6	2457.8	0.60		6	2454.3	0.00				
	7	2457.2	0.10		7	2457.8	0.75		7	2454.1	0.00				
	8	2457.0	0.10		8	2457.8	0.00		8	2454.0	0.00				
	9	2457.0	0.05		9	2457.7	0.30		9	2453.7	0.00				
	10	2457.1	0.00		10	2457.7	0.35		10	2453.4	0.00				
	11	2457.1	0.03		11	2457.7	0.05		11	2453.1	0.21				
	12	2457.1	0.02		12	2457.6	0.02		12	2453.1	0.13				
	13	2457.1	0.00		13	2457.5	0.10		13	2453.7	0.90				
	14	2457.1	0.00		14	2457.5	0.03		14	2455.2	0.32				
	15	2457.1	0.00		15	2457.5	0.10		15	2455.8	0.14				
	16	2457.1	0.05		16	2457.5	0.05		16	2456.3	0.04				
	17	2457.2	0.88		17	2457.4	0.05		17	2456.8	0.00				
	18	2457.4	0.02		18	2457.4	0.03		18	2457.1	0.00				
	19	2457.6	0.00		19	2457.4	0.50		19	2457.5	0.00				
	20	2457.7	0.00		20	2457.3	0.00		20	2457.7	0.00				
	21	2457.7	0.20		21	2457.4	0.00		21	2458.0	0.00				
	22	2457.8	0.10		22	2457.4	0.13		22	2458.3	0.10				
	23	2457.8	0.00		23	2457.3	0.03		23	2458.6	0.17				
	24	2457.8	0.90		24	2457.1	0.00		24	2458.8	0.00				
	25	2458.1	1.33		25	2456.8	0.22		25	2458.8	0.55				
	26	2458.5	0.05		26	2456.7	0.50		26	2458.9	0.10				
	27	2458.5	0.05		27	2456.5	0.35		27	2459.0	0.00				
	28	2458.4	0.08		28	2456.3	0.23		28	2459.1	0.67				
	29	2458.2	0.00						29	2459.3	0.05				
	30	2458.0	0.05						30	2459.3	0.00				
	31	2457.9	0.00						31	2459.3	0.00				
Total			4.77				5.17				3.70				

Deep Creek Daily Lake Level 2010															
Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Apr	1	2459.3	0.00	May	1	2460.0	0.03	Jun	1	2461.1	0.28				
	2	2459.3	0.00		2	2459.9	0.92		2	2461.1	0.00				
	3	2459.4	0.00		3	2460.1	0.53		3	2461.0	0.05				
	4	2459.4	0.00		4	2460.1	0.00		4	2461.1	0.00				
	5	2459.5	0.03		5	2460.2	0.00		5	2461.0	0.70				
	6	2459.6	0.00		6	2460.2	0.03		6	2461.0	1.75				
	7	2459.6	0.00		7	2460.3	0.00		7	2461.0	0.00				
	8	2459.6	0.65		8	2460.3	0.08		8	2460.8	0.00				
	9	2459.7	0.00		9	2460.3	0.02		9	2460.8	0.75				
	10	2459.7	0.00		10	2460.3	0.00		10	2460.9	0.07				
	11	2459.7	0.00		11	2460.3	0.75		11	2460.90	0.00				
	12	2459.7	0.00		12	2460.3	0.28		12	2461.0	0.20				
	13	2459.7	0.00		13	2460.4	0.02		13	2461.0	0.00				
	14	2459.8	0.00		14	2460.4	0.40		14	2461.0	0.26				
	15	2459.9	0.00		15	2460.4	0.00		15	2461.0	0.25				
	16	2459.8	0.80		16	2460.4	0.00		16	2461.0	0.16				
	17	2459.8	0.00		17	2460.5	1.27		17	2460.9	0.00				
	18	2459.8	0.00		18	2460.7	0.05		18	2460.9	0.00				
	19	2459.8	0.00		19	2460.8	0.07		19	2460.9	0.05				
	20	2459.9	0.00		20	2460.9	0.00		20	2460.8	0.00				
	21	2459.9	0.00		21	2460.9	0.00		21	2460.8	0.00				
	22	2459.9	0.05		22	2461.0	1.22		22	2460.7	0.02				
	23	2459.9	0.00		23	2461.2	0.73		23	2460.7	0.34				
	24	2459.9	0.30		24	2461.3	0.00		24	2460.7	0.83				
	25	2459.9	0.12		25	2461.3	0.00		25	2460.7	0.00				
	26	2459.9	0.50		26	2461.2	0.00		26	2460.6	0.35				
	27	2460.0	0.00		27	2461.2	0.00		27	2460.6	0.29				
	28	2460.0	0.00		28	2461.1	0.05		28	2460.6	0.03				
	29	2460.0	0.00		29	2461.0	0.00		29	2460.5	0.00				
	30	2460.0	0.00		30	2461.0	0.00		30	2460.5	0.00				
					31	2461.0	0.25								
Total			2.45				6.70				6.38				

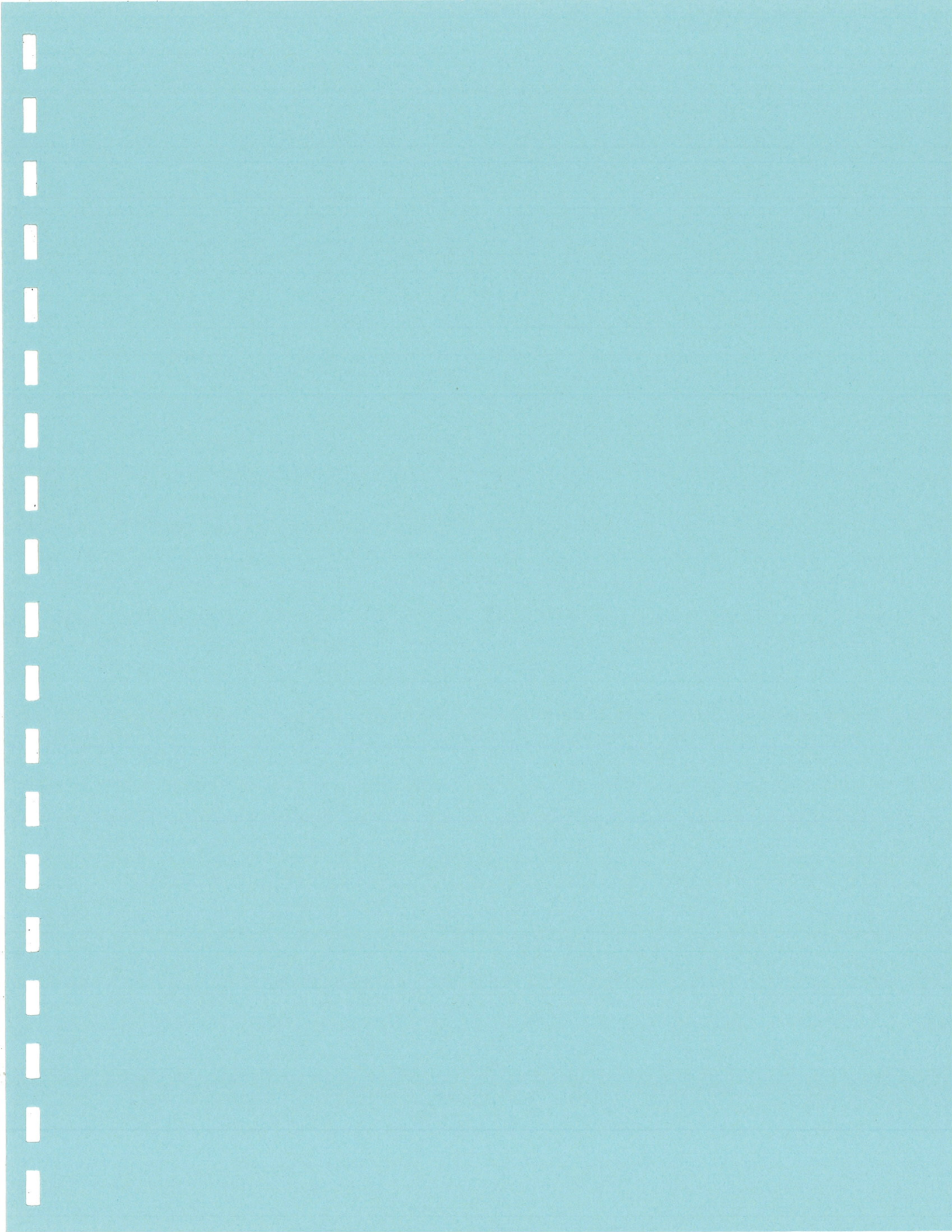
Deep Creek Daily Lake Level 2010															
Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Oct	1	2456.9	0.00	Nov	1	2456.3	0.00	Dec	1	2456.5	0.83				
	2	2456.9	0.00		2	2456.3	0.00		2	2456.7	0.14				
	3	2456.9	0.00		3	2456.2	0.10		3	2456.7	0.02				
	4	2456.9	0.00		4	2456.3	0.87		4	2456.8	0.00				
	5	2456.9	0.07		5	2456.3	0.08		5	2456.9	0.04				
	6	2456.9	0.41		6	2456.3	0.06		6	2456.9	0.10				
	7	2456.9	0.00		7	2456.3	0.00		7	2457.0	0.18				
	8	2456.9	0.00		8	2456.3	0.00		8	2456.9	0.06				
	9	2456.8	0.00		9	2456.2	0.00		9	2456.9	0.00				
	10	2456.8	0.00		10	2456.2	0.00		10	2457.0	0.00				
	11	2456.8	0.00		11	2456.2	0.00		11	2457.0	0.00				
	12	2456.7	0.00		12	2456.2	0.00		12	2457.0	0.40				
	13	2456.7	0.00		13	2456.1	0.00		13	2457.0	0.08				
	14	2456.7	0.09		14	2456.1	0.07		14	2457.1	0.17				
	15	2456.7	0.00		15	2456.1	0.07		15	2457.0	0.02				
	16	2456.6	0.00		16	2456.1	1.05		16	2457.1	0.03				
	17	2456.6	0.00		17	2456.2	0.20		17	2457.0	0.00				
	18	2456.6	0.04		18	2456.2	0.05		18	2457.0	0.00				
	19	2456.6	0.11		19	2456.2	0.00		19	2457.1	0.00				
	20	2456.5	0.00		20	2456.2	0.00		20	2457.1	0.00				
	21	2456.5	0.00		21	2456.1	0.00		21	2457.0	0.00				
	22	2456.4	0.00		22	2456.1	0.00		22	2457.0	0.00				
	23	2456.4	0.00		23	2456.1	0.05		23	2457.0	0.05				
	24	2456.4	0.00		24	2456.1	0.05		24	2457.1	0.00				
	25	2456.4	0.05		25	2456.2	0.94		25	2457.1	0.00				
	26	2456.4	0.45		26	2456.3	0.64		26	2457.1	0.05				
	27	2456.4	0.00		27	2456.3	0.00		27	2457.0	0.07				
	28	2456.4	0.00		28	2456.3	0.00		28	2457.0	0.03				
	29	2456.4	0.00		29	2456.3	0.00		29	2457.0	0.00				
	30	2456.3	0.00		30	2456.4	1.00		30	2457.0	0.00				
	31	2456.3	0.00						31	2457.0	0.00				
Total			1.22				5.23				2.27			Year Total	47.02

**SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER
RULE BANDS - 2010**

SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER RULE BANDS - 2010

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
January 25	2458.1	2457.9	2455.00	+ 0.2
January 26	2458.5	2457.9	2455.00	+ 0.6
January 27	2458.5	2457.9	2455.00	+ 0.6
January 28	2458.4	2457.9	2455.00	+ 0.5
January 29	2458.2	2457.9	2455.00	+ 0.3
January 30	2458.0	2457.9	2455.00	+ 0.1
March 2	2455.8	2457.95	2456.06	- 0.26
March 3	2455.5	2458.00	2456.13	- 0.63
March 4	2455.1	2458.05	2456.19	- 1.09
March 5	2454.8	2458.11	2456.26	- 1.46
March 6	2454.3	2458.16	2456.32	- 2.02
March 7	2454.1	2458.21	2456.39	- 2.29
March 8	2454.0	2458.26	2456.45	- 2.45
March 9	2453.7	2458.31	2456.52	- 2.82
March 10	2453.4	2458.36	2456.58	- 3.18
March 11	2453.1	2458.42	2456.65	- 3.55
March 12	2453.1	2458.47	2456.71	- 3.61
March 13	2453.7	2458.52	2456.77	- 3.07
March 14	2455.2	2458.57	2456.84	- 1.64
March 15	2455.8	2458.62	2456.90	- 1.1
March 16	2456.3	2458.67	2456.97	- 0.67
March 17	2456.8	2458.73	2457.03	- 0.23
May 23	2461.2	2461.0	2459.75	+ 0.2
May 24	2461.3	2461.0	2459.77	+ 0.3
May 25	2461.3	2461.0	2459.78	+ 0.3
May 26	2461.2	2461.0	2459.79	+ 0.2
May 27	2461.2	2461.0	2459.81	+ 0.2
May 28	2461.1	2461.0	2459.82	+ 0.1
August 8	2458.7	2459.77	2458.77	- 0.07
August 9	2458.7	2459.74	2458.74	- 0.04
August 10	2458.6	2459.71	2458.71	- 0.11
August 11	2458.6	2459.68	2458.68	- 0.08
August 12	2458.5	2459.65	2458.65	- 0.15
August 13	2458.5	2459.61	2458.61	- 0.11
August 14	2458.4	2459.58	2458.58	- 0.18
August 15	2458.4	2459.55	2458.55	- 0.15
August 16	2458.4	2459.52	2458.52	- 0.12
August 17	2458.3	2459.48	2458.48	- 0.18
August 18	2458.2	2459.45	2458.45	- 0.25
August 19	2458.2	2459.42	2458.42	- 0.22
August 20	2458.2	2459.39	2458.39	- 0.19
August 21	2458.1	2459.35	2458.35	- 0.25
August 22	2458.1	2459.32	2458.32	- 0.22
August 23	2458.1	2459.29	2458.29	- 0.19
August 24	2458.1	2459.26	2458.26	- 0.16
August 25	2458.0	2459.23	2458.23	- 0.23
August 26	2458.0	2459.19	2458.19	- 0.19
August 27	2458.0	2459.16	2458.16	- 0.16

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
August 28	2458.0	2459.13	2458.13	- 0.13
August 29	2457.9	2459.1	2458.10	- 0.2
August 30	2457.9	2459.06	2458.06	- 0.16
August 31	2457.8	2459.03	2458.03	- 0.23
September 1	2457.7	2459.0	2458.00	- 0.3
September 2	2457.7	2458.98	2457.97	- 0.27
September 3	2457.7	2458.97	2457.93	- 0.23
September 4	2457.6	2458.95	2457.90	- 0.3
September 5	2457.5	2458.93	2457.87	- 0.37
September 6	2457.5	2458.92	2457.83	- 0.33
September 7	2457.5	2458.9	2457.80	- 0.3
September 8	2457.4	2458.88	2457.77	- 0.37
September 9	2457.3	2458.87	2457.73	- 0.43
September 10	2457.3	2458.85	2457.70	- 0.4
September 11	2457.3	2458.83	2457.67	- 0.37
September 12	2457.2	2458.82	2457.63	- 0.43
September 13	2457.1	2458.8	2457.60	- 0.5
September 14	2457.1	2458.78	2457.57	- 0.47
September 15	2457.1	2458.77	2457.53	- 0.43
September 16	2457.1	2458.75	2457.50	- 0.4
September 17	2457.1	2458.73	2457.47	- 0.37
September 18	2457.1	2458.72	2457.43	- 0.33
September 19	2457.1	2458.7	2457.40	- 0.3
September 20	2457.0	2458.68	2457.37	- 0.37
September 21	2457.0	2458.67	2457.33	- 0.33
September 22	2457.0	2458.65	2457.30	- 0.3
September 23	2456.9	2458.63	2457.27	- 0.37
September 24	2456.9	2458.62	2457.23	- 0.33
September 25	2456.8	2458.6	2457.20	- 0.4
September 26	2456.8	2458.58	2457.17	- 0.37
September 27	2456.8	2458.57	2457.13	- 0.33
September 28	2456.8	2458.55	2457.10	- 0.3
September 29	2456.8	2458.53	2457.07	- 0.27
September 30	2456.8	2458.52	2457.03	- 0.23
October 1	2456.9	2458.5	2457.00	- 0.1
October 2	2456.9	2458.48	2456.97	- 0.07
October 3	2456.9	2458.46	2456.94	- 0.04



APPENDIX B

DAILY RIVER WATER TEMPERATURES AT SANG RUN

**TEMPERATURE ENHANCEMENT PLAN SANG RUN
TEMPERATURE EXCURSIONS**

TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS

Water temperature is measured from a temperature probe seasonally installed and maintained by Brookfield in the Youghiogheny River at the Sang Run Bridge. The instrument records water temperature at 10-minute intervals, has a monitoring accuracy of 0.1°C, and is calibrated in accordance with the manufacturer's instructions. Data is retrieved from the instrument by Brookfield's Hydro Control Center in Marlborough, Massachusetts via telephone modem.

Days when temperatures exceeded 25°C and days when temperature enhancement releases were made are summarized in the following tables. Daily Temperature Enhancement Plan sheets for each of these dates are also included.

DAILY RIVER WATER TEMPERATURES AT SANG RUN

DATE	TIME	TEMP °C
6/1/2010	0:00:00	19.43
	0:10:00	19.40
	0:20:00	19.43
	0:30:00	19.43
	0:40:00	19.48
	0:50:00	19.48
	1:00:00	19.42
	1:10:00	19.45
	1:20:00	19.45
	1:30:00	19.45
	1:40:00	19.44
	1:50:00	19.42
	2:00:00	19.46
	2:10:00	19.41
	2:20:00	19.48
	2:30:00	19.43
	2:40:00	19.41
	2:50:00	19.38
	3:00:00	19.39
	3:10:00	19.39
	3:20:00	19.39
	3:30:00	19.35
	3:40:00	19.35
	3:50:00	19.30
	4:00:00	19.31
	4:10:00	19.30
	4:20:00	19.30
	4:30:00	19.26
	4:40:00	19.26
	4:50:00	19.30
	5:00:00	19.24
	5:10:00	19.19
	5:20:00	19.21
	5:30:00	19.18
	5:40:00	19.18
	5:50:00	19.17
	6:00:00	19.19
	6:10:00	19.17
	6:20:00	19.15
	6:30:00	19.15
6:40:00	19.14	
6:50:00	19.15	
7:00:00	19.13	
7:10:00	19.09	
7:20:00	19.14	

7:30:00	19.13
7:40:00	19.15
7:50:00	19.12
8:00:00	19.13
8:10:00	19.14
8:20:00	19.15
8:30:00	19.13
8:40:00	19.13
8:50:00	19.19
9:00:00	20.08
9:10:00	19.25
9:20:00	19.29
9:30:00	19.33
9:40:00	19.29
9:50:00	19.27
10:00:00	19.29
10:10:00	19.29
10:20:00	19.29
10:30:00	19.62
10:40:00	19.40
10:50:00	19.42
11:00:00	19.44
11:10:00	19.42
11:20:00	20.60
11:30:00	19.66
11:40:00	19.69
11:50:00	20.52
12:00:00	19.90
12:10:00	20.08
12:20:00	20.19
12:30:00	20.25
12:40:00	20.43
12:50:00	20.58
13:00:00	20.58
13:10:00	21.06
13:20:00	20.91
13:30:00	21.08
13:40:00	21.19
13:50:00	21.17
14:00:00	21.34
14:10:00	21.42
14:20:00	21.54
14:30:00	21.74
14:40:00	21.87
14:50:00	22.01
15:00:00	22.14
15:10:00	22.29

	23:10:00	19.92
	23:20:00	19.88
	23:30:00	19.86
	23:40:00	19.81
	23:50:00	19.76
6/2/2010	0:00:00	19.69
	0:10:00	19.67
	0:20:00	19.63
	0:30:00	19.56
	0:40:00	19.56
	0:50:00	19.54
	1:00:00	19.50
	1:10:00	19.45
	1:20:00	19.41
	1:30:00	19.41
	1:40:00	19.32
	1:50:00	19.30
	2:00:00	19.28
	2:10:00	19.26
	2:20:00	19.20
	2:30:00	19.18
	2:40:00	19.13
	2:50:00	19.10
	3:00:00	19.06
	3:10:00	19.02
	3:20:00	19.01
	3:30:00	18.95
	3:40:00	18.93
	3:50:00	18.92
	4:00:00	18.88
	4:10:00	18.83
	4:20:00	18.81
	4:30:00	18.80
	4:40:00	18.74
	4:50:00	18.71
	5:00:00	18.67
	5:10:00	18.68
	5:20:00	18.62
	5:30:00	18.60
	5:40:00	18.59
	5:50:00	18.56
	6:00:00	18.57
	6:10:00	18.54
	6:20:00	18.47
	6:30:00	18.49
	6:40:00	18.49
	6:50:00	18.47

7:00:00	18.47
7:10:00	18.45
7:20:00	18.38
7:30:00	18.47
7:40:00	18.52
7:50:00	18.49
8:00:00	18.54
8:10:00	18.29
8:20:00	19.43
8:30:00	19.64
8:40:00	18.66
8:50:00	19.03
9:00:00	18.70
9:10:00	18.77
9:20:00	18.82
9:30:00	18.81
9:40:00	18.87
9:50:00	19.19
10:00:00	19.25
10:10:00	19.26
10:20:00	19.32
10:30:00	19.37
10:40:00	19.49
10:50:00	-51.37
11:00:00	19.82
11:10:00	25.38
11:20:00	25.63
11:30:00	21.68
11:40:00	20.31
11:50:00	20.45
12:00:00	20.57
12:10:00	20.58
12:20:00	20.82
12:30:00	21.06
12:40:00	21.07
12:50:00	21.21
13:00:00	21.56
13:10:00	21.93
13:20:00	21.92
13:30:00	21.96
13:40:00	22.21
13:50:00	22.46
14:00:00	22.72
14:10:00	23.12
14:20:00	23.41
14:30:00	23.50
14:40:00	23.51

15:20:00	22.47
15:30:00	22.56
15:40:00	22.66
15:50:00	22.58
16:00:00	22.74
16:10:00	22.74
16:20:00	22.76
16:30:00	22.70
16:40:00	22.87
16:50:00	22.78
17:00:00	22.91
17:10:00	22.93
17:20:00	22.91
17:30:00	22.94
17:40:00	22.91
17:50:00	22.84
18:00:00	22.81
18:10:00	22.76
18:20:00	22.78
18:30:00	22.68
18:40:00	22.61
18:50:00	22.56
19:00:00	22.48
19:10:00	22.35
19:20:00	22.26
19:30:00	22.14
19:40:00	22.00
19:50:00	21.86
20:00:00	21.76
20:10:00	21.68
20:20:00	21.55
20:30:00	21.44
20:40:00	21.29
20:50:00	21.18
21:00:00	21.09
21:10:00	21.00
21:20:00	20.85
21:30:00	20.73
21:40:00	20.63
21:50:00	20.53
22:00:00	20.44
22:10:00	20.36
22:20:00	20.29
22:30:00	20.21
22:40:00	20.15
22:50:00	20.07
23:00:00	19.99

14:50:00	23.38
15:00:00	23.12
15:10:00	22.77
15:20:00	20.72
15:30:00	19.35
15:40:00	19.17
15:50:00	18.78
16:00:00	18.54
16:10:00	18.47
16:20:00	18.36
16:30:00	18.27
16:40:00	18.23
16:50:00	18.12
17:00:00	18.07
17:10:00	18.01
17:20:00	17.89
17:30:00	17.84
17:40:00	17.78
17:50:00	17.75
18:00:00	17.69
18:10:00	17.64
18:20:00	17.52
18:30:00	17.42
18:40:00	17.32
18:50:00	17.22
19:00:00	17.11
19:10:00	17.01
19:20:00	16.88
19:30:00	16.80
19:40:00	16.77
19:50:00	16.76
20:00:00	16.75
20:10:00	16.73
20:20:00	16.71
20:30:00	16.71
20:40:00	16.73
20:50:00	16.71
21:00:00	16.76
21:10:00	16.71
21:20:00	16.73
21:30:00	16.73
21:40:00	16.73
21:50:00	16.75
22:00:00	16.80
22:10:00	16.90
22:20:00	17.14
22:30:00	17.42

	22:40:00	17.75
	22:50:00	18.02
	23:00:00	18.23
	23:10:00	18.43
	23:20:00	18.61
	23:30:00	18.74
	23:40:00	18.86
	23:50:00	18.96
6/3/2010	0:00:00	19.07
	0:10:00	19.14
	0:20:00	19.21
	0:30:00	19.24
	0:40:00	19.32
	0:50:00	19.39
	1:00:00	19.35
	1:10:00	19.38
	1:20:00	19.38
	1:30:00	19.40
	1:40:00	19.41
	1:50:00	19.42
	2:00:00	19.48
	2:10:00	19.43
	2:20:00	19.45
	2:30:00	19.43
	2:40:00	19.43
	2:50:00	19.41
	3:00:00	19.41
	3:10:00	19.41
	3:20:00	19.40
	3:30:00	19.41
	3:40:00	19.39
	3:50:00	19.39
	4:00:00	19.39
	4:10:00	19.35
	4:20:00	19.35
	4:30:00	19.31
	4:40:00	19.32
	4:50:00	19.29
	5:00:00	19.27
	5:10:00	19.29
	5:20:00	19.28
	5:30:00	19.25
	5:40:00	19.20
	5:50:00	19.21
	6:00:00	19.17
	6:10:00	19.17
	6:20:00	19.17

6:30:00	19.13
6:40:00	19.09
6:50:00	19.12
7:00:00	19.03
7:10:00	19.12
7:20:00	19.12
7:30:00	19.12
7:40:00	19.13
7:50:00	19.12
8:00:00	19.10
8:10:00	19.10
8:20:00	19.12
8:30:00	18.95
8:40:00	19.12
8:50:00	19.23
9:00:00	19.26
9:10:00	19.74
9:20:00	19.35
9:30:00	19.43
9:40:00	19.50
9:50:00	19.50
10:00:00	19.59
10:10:00	19.69
10:20:00	19.73
10:30:00	19.83
10:40:00	19.88
10:50:00	19.95
11:00:00	20.04
11:10:00	20.10
11:20:00	20.21
11:30:00	20.32
11:40:00	20.39
11:50:00	20.40
12:00:00	20.49
12:10:00	20.56
12:20:00	20.64
12:30:00	20.70
12:40:00	21.31
12:50:00	21.09
13:00:00	21.45
13:10:00	21.51
13:20:00	21.73
13:30:00	21.81
13:40:00	21.73
13:50:00	21.76
14:00:00	21.74
14:10:00	21.78

14:20:00	21.80
14:30:00	21.82
14:40:00	21.76
14:50:00	22.05
15:00:00	22.03
15:10:00	21.90
15:20:00	20.16
15:30:00	18.95
15:40:00	18.69
15:50:00	18.48
16:00:00	18.22
16:10:00	18.15
16:20:00	18.23
16:30:00	18.19
16:40:00	18.30
16:50:00	18.25
17:00:00	18.32
17:10:00	18.24
17:20:00	18.12
17:30:00	18.02
17:40:00	17.97
17:50:00	17.91
18:00:00	17.78
18:10:00	17.63
18:20:00	17.58
18:30:00	17.44
18:40:00	17.38
18:50:00	17.25
19:00:00	17.17
19:10:00	17.08
19:20:00	16.96
19:30:00	16.82
19:40:00	16.73
19:50:00	16.63
20:00:00	16.54
20:10:00	16.41
20:20:00	16.34
20:30:00	16.32
20:40:00	16.23
20:50:00	16.23
21:00:00	16.19
21:10:00	16.19
21:20:00	16.15
21:30:00	16.21
21:40:00	16.23
21:50:00	16.23
22:00:00	16.25

	22:10:00	16.30
	22:20:00	16.28
	22:30:00	16.31
	22:40:00	16.32
	22:50:00	16.30
	23:00:00	16.30
	23:10:00	16.32
	23:20:00	16.33
	23:30:00	16.45
	23:40:00	16.58
	23:50:00	16.84
6/4/2010	0:00:00	17.06
	0:10:00	17.38
	0:20:00	17.58
	0:30:00	17.78
	0:40:00	17.98
	0:50:00	18.18
	1:00:00	18.29
	1:10:00	18.42
	1:20:00	18.59
	1:30:00	18.66
	1:40:00	18.72
	1:50:00	18.79
	2:00:00	18.85
	2:10:00	18.92
	2:20:00	19.02
	2:30:00	19.02
	2:40:00	19.08
	2:50:00	19.10
	3:00:00	19.14
	3:10:00	19.12
	3:20:00	19.19
	3:30:00	19.16
	3:40:00	19.20
	3:50:00	19.18
	4:00:00	19.18
	4:10:00	19.18
	4:20:00	19.20
	4:30:00	19.22
	4:40:00	19.21
	4:50:00	19.19
	5:00:00	19.20
	5:10:00	19.21
	5:20:00	19.19
	5:30:00	19.17
	5:40:00	19.17
	5:50:00	19.15

6:00:00	19.13
6:10:00	19.15
6:20:00	19.13
6:30:00	19.10
6:40:00	19.05
6:50:00	19.07
7:00:00	19.09
7:10:00	19.08
7:20:00	19.09
7:30:00	19.09
7:40:00	19.09
7:50:00	19.13
8:00:00	18.92
8:10:00	19.24
8:20:00	19.17
8:30:00	19.17
8:40:00	19.17
8:50:00	19.24
9:00:00	19.29
9:10:00	19.35
9:20:00	19.41
9:30:00	19.36
9:40:00	19.65
9:50:00	19.67
10:00:00	19.83
10:10:00	19.88
10:20:00	20.35
10:30:00	20.31
10:40:00	20.14
10:50:00	20.29
11:00:00	20.39
11:10:00	20.43
11:20:00	20.63
11:30:00	20.74
11:40:00	20.90
11:50:00	21.22
12:00:00	21.49
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11:50:00	20.95
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15:50:00	18.39
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	6:40:00	18.07

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14:50:00	23.13
15:00:00	22.00
15:10:00	19.81
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15:50:00	18.36
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18:30:00	20.46
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18:50:00	20.91
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	20:00:00	22.74
	20:10:00	22.81
	20:20:00	22.78
	20:30:00	22.76
	20:40:00	22.76
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10:30:00	22.21
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11:30:00	22.76
11:40:00	22.58
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12:40:00	23.32
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13:20:00	23.77
13:30:00	23.76
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14:00:00	24.09
14:10:00	23.48
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15:10:00	19.12
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15:30:00	18.98
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15:50:00	18.81
16:00:00	18.81
16:10:00	18.83
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16:30:00	19.05
16:40:00	19.05
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	17:40:00	19.81
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	19:30:00	20.51
	19:40:00	20.51
	19:50:00	20.55
	20:00:00	20.56
	20:10:00	20.69
	20:20:00	20.76
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	0:40:00	21.12

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4:20:00	19.92
4:30:00	19.83
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Date Time, GMT-04:00 Temp, °C

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19.94

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8/29/2010 3:20	17.89
8/29/2010 3:30	17.82
8/29/2010 3:40	17.77
8/29/2010 3:50	17.70
8/29/2010 4:00	17.63
8/29/2010 4:10	17.56
8/29/2010 4:20	17.51
8/29/2010 4:30	17.44
8/29/2010 4:40	17.37
8/29/2010 4:50	17.32
8/29/2010 5:00	17.25
8/29/2010 5:10	17.18
8/29/2010 5:20	17.13
8/29/2010 5:30	17.06
8/29/2010 5:40	16.99
8/29/2010 5:50	16.92
8/29/2010 6:00	16.87
8/29/2010 6:10	16.80
8/29/2010 6:20	16.75
8/29/2010 6:30	16.68
8/29/2010 6:40	16.61
8/29/2010 6:50	16.56
8/29/2010 7:00	16.49
8/29/2010 7:10	16.44
8/29/2010 7:20	16.37
8/29/2010 7:30	16.32
8/29/2010 7:40	16.30
8/29/2010 7:50	16.25
8/29/2010 8:00	16.23
8/29/2010 8:10	16.20
8/29/2010 8:20	16.20
8/29/2010 8:30	16.20
8/29/2010 8:40	16.23
8/29/2010 8:50	16.25
8/29/2010 9:00	16.34
8/29/2010 9:10	16.46

8/29/2010 9:20	16.58
8/29/2010 9:30	16.70
8/29/2010 9:40	16.82
8/29/2010 9:50	16.96
8/29/2010 10:00	17.11
8/29/2010 10:10	17.27
8/29/2010 10:20	17.46
8/29/2010 10:30	17.63
8/29/2010 10:40	17.84
8/29/2010 10:50	18.03
8/29/2010 11:00	18.25
8/29/2010 11:10	18.46
8/29/2010 11:20	18.68
8/29/2010 11:30	18.89
8/29/2010 11:40	19.10
8/29/2010 11:50	19.32
8/29/2010 12:00	19.56
8/29/2010 12:10	19.79
8/29/2010 12:20	20.01
8/29/2010 12:30	20.22
8/29/2010 12:40	20.44
8/29/2010 12:50	20.70
8/29/2010 13:00	20.17
8/29/2010 13:10	19.77
8/29/2010 13:20	19.46
8/29/2010 13:30	18.75
8/29/2010 13:40	19.03
8/29/2010 13:50	19.58
8/29/2010 14:00	19.96
8/29/2010 14:10	20.32
8/29/2010 14:20	20.58
8/29/2010 14:30	20.82
8/29/2010 14:40	21.03
8/29/2010 14:50	21.22
8/29/2010 15:00	21.41
8/29/2010 15:10	21.60
8/29/2010 15:20	21.80
8/29/2010 15:30	21.99
8/29/2010 15:40	22.18
8/29/2010 15:50	22.35
8/29/2010 16:00	22.51
8/29/2010 16:10	22.66
8/29/2010 16:20	22.82
8/29/2010 16:30	22.94
8/29/2010 16:40	23.09
8/29/2010 16:50	23.21
8/29/2010 17:00	23.28

8/29/2010 17:10	23.38
8/29/2010 17:20	23.47
8/29/2010 17:30	23.52
8/29/2010 17:40	23.57
8/29/2010 17:50	23.64
8/29/2010 18:00	23.69
8/29/2010 18:10	23.69
8/29/2010 18:20	23.69
8/29/2010 18:30	23.69
8/29/2010 18:40	23.67
8/29/2010 18:50	23.64
8/29/2010 19:00	23.59
8/29/2010 19:10	23.55
8/29/2010 19:20	23.50
8/29/2010 19:30	23.42
8/29/2010 19:40	23.38
8/29/2010 19:50	23.28
8/29/2010 20:00	23.21
8/29/2010 20:10	23.11
8/29/2010 20:20	23.02
8/29/2010 20:30	22.92
8/29/2010 20:40	22.80
8/29/2010 20:50	22.68
8/29/2010 21:00	22.59
8/29/2010 21:10	22.49
8/29/2010 21:20	22.39
8/29/2010 21:30	22.30
8/29/2010 21:40	22.20
8/29/2010 21:50	22.08
8/29/2010 22:00	21.99
8/29/2010 22:10	21.89
8/29/2010 22:20	21.82
8/29/2010 22:30	21.72
8/29/2010 22:40	21.63
8/29/2010 22:50	21.53
8/29/2010 23:00	21.46
8/29/2010 23:10	21.37
8/29/2010 23:20	21.29
8/29/2010 23:30	21.20
8/29/2010 23:40	21.13
8/29/2010 23:50	21.03
8/30/2010 0:00	20.96
8/30/2010 0:10	20.89
8/30/2010 0:20	20.79
8/30/2010 0:30	20.72
8/30/2010 0:40	20.65
8/30/2010 0:50	20.56

8/30/2010 1:00	20.48
8/30/2010 1:10	20.41
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8/30/2010 1:30	20.25
8/30/2010 1:40	20.17
8/30/2010 1:50	20.08
8/30/2010 2:00	20.01
8/30/2010 2:10	19.94
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8/30/2010 4:00	19.10
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8/30/2010 7:00	17.65
8/30/2010 7:10	17.58
8/30/2010 7:20	17.51
8/30/2010 7:30	17.44
8/30/2010 7:40	17.39
8/30/2010 7:50	17.32
8/30/2010 8:00	17.27
8/30/2010 8:10	17.25
8/30/2010 8:20	17.23
8/30/2010 8:30	17.20
8/30/2010 8:40	17.20

8/30/2010 8:50	17.25
8/30/2010 9:00	17.32
8/30/2010 9:10	17.44
8/30/2010 9:20	17.53
8/30/2010 9:30	17.65
8/30/2010 9:40	17.75
8/30/2010 9:50	17.87
8/30/2010 10:00	18.01
8/30/2010 10:10	18.15
8/30/2010 10:20	18.30
8/30/2010 10:30	18.46
8/30/2010 10:40	18.65
8/30/2010 10:50	18.84
8/30/2010 11:00	19.03
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8/30/2010 11:30	19.63
8/30/2010 11:40	19.84
8/30/2010 11:50	20.03
8/30/2010 12:00	20.22
8/30/2010 12:10	20.44
8/30/2010 12:20	20.60
8/30/2010 12:30	20.82
8/30/2010 12:40	21.01
8/30/2010 12:50	21.22
8/30/2010 13:00	20.72
8/30/2010 13:10	20.22
8/30/2010 13:20	19.77
8/30/2010 13:30	18.94
8/30/2010 13:40	19.03
8/30/2010 13:50	19.53
8/30/2010 14:00	19.89
8/30/2010 14:10	20.20
8/30/2010 14:20	20.44
8/30/2010 14:30	20.65
8/30/2010 14:40	20.87
8/30/2010 14:50	21.06
8/30/2010 15:00	21.27
8/30/2010 15:10	21.46
8/30/2010 15:20	21.65
8/30/2010 15:30	21.84
8/30/2010 15:40	22.03
8/30/2010 15:50	22.20
8/30/2010 16:00	22.37
8/30/2010 16:10	22.54
8/30/2010 16:20	22.66
8/30/2010 16:30	22.80

8/30/2010 16:40	22.92
8/30/2010 16:50	23.04
8/30/2010 17:00	23.14
8/30/2010 17:10	23.23
8/30/2010 17:20	23.30
8/30/2010 17:30	23.38
8/30/2010 17:40	23.40
8/30/2010 17:50	23.45
8/30/2010 18:00	23.47
8/30/2010 18:10	23.47
8/30/2010 18:20	23.50
8/30/2010 18:30	23.47
8/30/2010 18:40	23.47
8/30/2010 18:50	23.42
8/30/2010 19:00	23.40
8/30/2010 19:10	23.35
8/30/2010 19:20	23.30
8/30/2010 19:30	23.23
8/30/2010 19:40	23.16
8/30/2010 19:50	23.09
8/30/2010 20:00	23.02
8/30/2010 20:10	22.92
8/30/2010 20:20	22.80
8/30/2010 20:30	22.71
8/30/2010 20:40	22.61
8/30/2010 20:50	22.49
8/30/2010 21:00	22.39
8/30/2010 21:10	22.30
8/30/2010 21:20	22.18
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8/31/2010 1:20	20.17
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8/31/2010 1:40	20.01
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8/31/2010 7:50	16.99
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8/31/2010 11:50	19.82
8/31/2010 12:00	20.01
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8/31/2010 12:20	20.46
8/31/2010 12:30	20.65
8/31/2010 12:40	20.82
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8/31/2010 13:00	19.89
8/31/2010 13:10	19.53
8/31/2010 13:20	18.79
8/31/2010 13:30	18.89
8/31/2010 13:40	19.46
8/31/2010 13:50	19.91
8/31/2010 14:00	20.22
8/31/2010 14:10	20.46
8/31/2010 14:20	20.65
8/31/2010 14:30	20.82
8/31/2010 14:40	20.98
8/31/2010 14:50	21.15
8/31/2010 15:00	21.37
8/31/2010 15:10	21.56
8/31/2010 15:20	21.75
8/31/2010 15:30	21.94
8/31/2010 15:40	22.13
8/31/2010 15:50	22.30
8/31/2010 16:00	22.47

8/31/2010 16:10	22.63
8/31/2010 16:20	22.80
8/31/2010 16:30	22.94
8/31/2010 16:40	23.06
8/31/2010 16:50	23.18
8/31/2010 17:00	23.26
8/31/2010 17:10	23.33
8/31/2010 17:20	23.40
8/31/2010 17:30	23.45
8/31/2010 17:40	23.47
8/31/2010 17:50	23.47
8/31/2010 18:00	23.50
8/31/2010 18:10	23.47
8/31/2010 18:20	23.42
8/31/2010 18:30	23.40
8/31/2010 18:40	23.35
8/31/2010 18:50	23.30
8/31/2010 19:00	23.23
8/31/2010 19:10	23.18
8/31/2010 19:20	23.11
8/31/2010 19:30	23.06
8/31/2010 19:40	22.99
8/31/2010 19:50	22.90
8/31/2010 20:00	22.78
8/31/2010 20:10	22.68
8/31/2010 20:20	22.59
8/31/2010 20:30	22.47
8/31/2010 20:40	22.35
8/31/2010 20:50	22.23
8/31/2010 21:00	22.13
8/31/2010 21:10	22.03
8/31/2010 21:20	21.92
8/31/2010 21:30	21.82
8/31/2010 21:40	21.72
8/31/2010 21:50	21.63
8/31/2010 22:00	21.51
8/31/2010 22:10	21.41
8/31/2010 22:20	21.32
8/31/2010 22:30	21.22
8/31/2010 22:40	21.15
8/31/2010 22:50	21.06
8/31/2010 23:00	20.96
8/31/2010 23:10	20.89
8/31/2010 23:20	20.79
8/31/2010 23:30	20.72
8/31/2010 23:40	20.63
8/31/2010 23:50	20.53

9/1/2010 0:00 20.46

TEMPERATURE ENHANCEMENT PLAN
SANG RUN TEMPERATURE EXCURSIONS

**Deep Creek Station
Youghiogheny River**

Summary of Temperature Excursions June 1, 2010 to August 31, 2010				
Date	Duration	Max Temp (°C)	Cause	Remarks
June 2, 2010	10 minutes	25.63	(1) Model Uncertainty	The protocol was conducted, and it did not require a release as flow exceeded 150 cfs.
June 27, 2010	1 hour 20 minutes	25.69	(1) Model Uncertainty	The protocol was conducted, and a release was made from 12:45 - 14:45.
June 30, 2010	1 hour	25.46	(1) Model Uncertainty	The protocol was conducted, and a release was made from 14:00 - 15:15.
July 14, 2010	30 Minutes	25.09	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day. CFS was > 150 from the first protocol call-in at 7:00 AM until approximately 19:00.
July 20, 2010	20 Minutes	25.07	(1) Model Uncertainty	The protocol was conducted, and a release was made from 12:30 - 14:30, using both units.
July 21, 2010	20 Minutes	25.04	(1) Model Uncertainty	The protocol was conducted and, a 1 hour release was made from 13:00 - 14:00, using both units.
July 24, 2010	30 minutes	25.19	(1) Model Uncertainty	The protocol called for a 2 hour release, starting at 11:00, and it was synchronized with a whitewater release from 11:00 - 14:00. Both units ran an additional 2 hours until 16:00.
July 28, 2010	20 Minutes	25.19	(1) Model Uncertainty	The protocol called for a 2 hour release, starting at 12:30. Both units generated 12:30 - 14:45.
August 15, 2010	20 Minutes	25.21	(1) Model Uncertainty	The protocol was conducted and it called for a 2 hour release starting at 12:30. Both units ran full power for 2 hours.

TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

171 = CFS River Flow at Oakland

June 1, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.48 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

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	19.18	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	171.00	River Flow at Oakland		

PSJ 6-1-10

* START OF TEMP PROTOCOL

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

151 = CFS River Flow at Oakland

June 2, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.19 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
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	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.52	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	151.00	River Flow at Oakland		

Jed 6-2-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

118 = CFS River Flow at Oakland

June 3, 2010

Simulate a Ra

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	22.23 (23 to 25.9)	Check Again at 1100
1100	24.61 (23 to 25.4)	Check Again at 1200
1200	24.31 (23 to 25.3)	Check Again at 1400
1400	23.64 (23 to 25.2)	Check Again at 1500
1500	23.22	Check Again Tomorrow at 0700

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.12	River Temp Sang Run @700		
T9	19.30	River Temp Sang Run @900		
T11	20.02	River Temp Sang Run @1100		
T12	20.53	River Temp Sang Run @1200		
T14	21.78	River Temp Sang Run @1400		
T15	22.09	River Temp Sang Run @1500		
Q	118.00	River Flow at Oakland		

R. McKenna 6/03/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

115 = GFS River Flow at Oakland

June 4, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.79 (23 to 26.4)	Check Again at 0900
0900	21.95 (23 to 25.9)	Check Again at 1100
1100	24.79 (23 to 25.4)	Check Again at 1200
1200	25.24 (23 to 25.3)	Check Again at 1400
1400		Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	19.08	River Temp Sang Run @700
T9	19.30	River Temp Sang Run @900
T11	20.25	River Temp Sang Run @1100
T12	21.51	River Temp Sang Run @1200
T14	18.43	River Temp Sang Run @1400
T15	18.55	River Temp Sang Run @1500
Q	115.00	River Flow at Oakland

83
SHWRS

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

Chmcken 6/04/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

93 = CFS River Flow at Oakland

June 5, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.36 (23 to 26.4)	Check Again at 0900
0900	22.35 (23 to 25.9)	Check Again at 1100
1100	24.54 (23 to 25.4)	Check Again at 1200
1200	24.47 (23 to 25.3)	Check Again at 1400
1400	23.05 (23 to 25.2)	Check Again at 1500
1500	23.56	Check Again Tomorrow at 0700

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.39	River Temp Sang Run @700		
T9	20.50	River Temp Sang Run @900		
T11	21.14	River Temp Sang Run @1100		
T12	21.67	River Temp Sang Run @1200		
T14	21.85	River Temp Sang Run @1400		
T15	22.70	River Temp Sang Run @1500		
Q	93.00	River Flow at Oakland		

R. McKenna 6/05/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

692 = CFS River Flow at Oakland

June 6, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.0 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	25.00	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	19.90	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	692.00	River Flow at Oakland

77
TSTRMS

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

R. McKenna
6/06/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1660 = CFS River Flow at Oakland

June 7, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	21.11	Air Temp, Elkins WV - Degree C	70	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	16.90	River Temp Sang Run @700	<i>Rmcferr</i> <i>6/07/10</i>	
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	1660.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

622 = CFS River Flow at Oakland

June 8, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	15.29	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	622.00	River Flow at Oakland		

J-D 6-8-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

378 = CFS River Flow at Oakland

June 9, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	16.43	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	378.00	River Flow at Oakland		

JG 6-9-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1200 = CFS River Flow at Oakland

June 10, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.54 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

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	16.15	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	1200.00	River Flow at Oakland		

[Handwritten Signature] 6-10-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

538 = CFS River Flow at Oakland

June 11, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 25.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	12.22	Air Temp, Elkins WV - Degree C	54	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.96	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	538.00	River Flow at Oakland		

[Handwritten Signature] 6-11-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

373 = CFS River Flow at Oakland

June 12, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	15.00	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	17.72	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	373.00	River Flow at Oakland

59
PTCLDY

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

R. McKenna
6/12/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

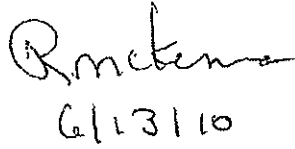
333 = CFS River Flow at Oakland

June 13, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.52	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	333.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

252 = CFS River Flow at Oakland

June 14, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.60 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.67	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	20.06	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	252.00	River Flow at Oakland

80
RAIN

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

R. McKenna

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

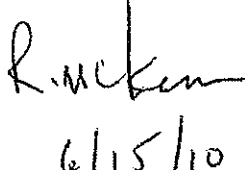
218 = CFS River Flow at Oakland

June 15, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.59 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.04	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	218.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

194 = CFS River Flow at Oakland

June 16, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.51 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	19.27	River Temp Sang Run @700	<i>R. McNamee</i> 6/16/10	
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		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

194 = CFS River Flow at Oakland

June 17, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.11 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 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	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	19.49	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		

[Handwritten Signature] 6-17-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

153 = CFS River Flow at Oakland

June 18, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.54 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	17.67	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	153.00	River Flow at Oakland		

JJ 6-18-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

130 = CFS River Flow at Oakland

June 19, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.71 (23 to 26.4)	Check Again at 0900
0900	21.09 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 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	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.11	River Temp Sang Run @700		
T9	19.07	River Temp Sang Run @900		
T11	20.37	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	130.00	River Flow at Oakland		

JST 6-19-10

** Note:*

Decided to run till 3:00pm to satisfy both the WVK release + the temp. protocol.

JST.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

112 = CFS River Flow at Oakland

June 20, 2010

Simulate a R:

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.37 (23 to 26.4)	Check Again at 0900
0900	25.52 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	20.69	River Temp Sang Run @700		
T9	20.92	River Temp Sang Run @900		
T11	21.51	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	112.00	River Flow at Oakland		

[Handwritten Signature] 6-20-10

Note: Marketers decided to run D.C. starting @ 10:37 for 2 hrs. We also have a temp run for 2 hrs. We will satisfy both by running 19 MW until 1500 hrs. Water is updated.

JSS.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

58 = CFS River Flow at Oakland

June 21, 2010

Simulate a R:

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.96 (23 to 26.4)	Check Again at 0900
0900	23.72 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Jef

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.04	River Temp Sang Run @700		
T9	19.94	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	98.00	River Flow at Oakland		

Jef 6-21-10

Note: We will run until 1500hrs to satisfy both the WWT & temp enhancement protocol.

*Just. Sh. Felt
6-21-10*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

85 = CFS River Flow at Oakland

June 22, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.31 (23 to 26.4)	Check Again at 0900
0900	24.25 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	30.56	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	20.57	River Temp Sang Run @700
T9	20.65	River Temp Sang Run @900
T11	21.20	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	85.00	River Flow at Oakland

87
SHWRS

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

R. McKenna
6/22/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

88 = CFS River Flow at Oakland

June 23, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.62 (23 to 26.4)	Check Again at 0900
0900	(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	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	21.20	River Temp Sang Run @700	<i>R. McNamee</i> 6/23/10	
T9	21.50	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	88.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

93 = CFS River Flow at Oakland

June 24, 2010

Simulate a R:

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.32 (23 to 26.4)	Check Again at 0900
0900	24.23 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	29.44	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	21.44	River Temp Sang Run @700
T9	21.72	River Temp Sang Run @900
T11	22.48	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	93.00	River Flow at Oakland

85
SHWRS

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

Q McFerson
6/24/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

293 = CFS River Flow at Oakland

June 25, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.31 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	21.32	River Temp Sang Run @700	<i>R. McKenna</i> 6/25/10	
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	293.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

130 = CFS River Flow at Oakland

June 26, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.75 (23 to 26.4)	Check Again at 0900
0900	22.31 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	---
1400	(23 to 25.2)	---
1500		---

Jed
6-26-10

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.74	River Temp Sang Run @700		
T9	19.72	River Temp Sang Run @900		
T11	21.11	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	130.00	River Flow at Oakland		

* WWR today from 1100-1400
 then we will continue to run
 until 1430 to meet the
 TEMP protocol -
 JSO.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

98 = CFS River Flow at Oakland

June 27, 2010

Simulate a R

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.36 (23 to 26.4)	Check Again at 0900
0900	24.56 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

J. J.

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.74	River Temp Sang Run @700		
T9	21.05	River Temp Sang Run @900		
T11	22.64	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	98.00	River Flow at Oakland		

J. J.
6-27-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

93 = CFS River Flow at Oakland

June 28, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.67 (23 to 26.4)	Check Again at 0900
0900	22.80 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

9-1 6-28-10

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	21.87	River Temp Sang Run @700		
T9	21.96	River Temp Sang Run @900		
T11	22.75	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	93.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

85 = CFS River Flow at Oakland

June 29, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.15 (23 to 26.4)	Check Again at 0900
0900	24.69 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
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	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	21.26	River Temp Sang Run @700		
T9	21.54	River Temp Sang Run @900		
T11	22.63	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	85.00	River Flow at Oakland		

JSD 6-29-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

82 = CFS River Flow at Oakland

June 30, 2010

Simulate a R:

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.03 (23 to 26.4)	Check Again at 0900
0900	23.50 (23 to 25.9)	Check Again at 1100
1100	24.36 (23 to 25.4)	Check Again at 1200
1200	24.27 (23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		

Tair °C	23.89	Air Temp, Elkins WV - Degree C
CCF	1	Cloud Cover Factor, Elkins WV
T7	19.24	River Temp Sang Run @700
T9	19.54	River Temp Sang Run @900
T11	20.42	River Temp Sang Run @1100
T12	21.11	River Temp Sang Run @1200
T14	23.84	River Temp Sang Run @1400
T15	-	River Temp Sang Run @1500
Q	82.00	River Flow at Oakland

75
SUNNY

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

J-J 6-30-10

- 1 hr release - 1400 - 1500 hr

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


62 = CFS River Flow at Oakland

July 1, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.68 (23 to 26.4)	Check Again at 0900
0900	22.68 (23 to 25.9)	Check Again at 1100
1100	23.84 (23 to 25.4)	Check Again at 1200
1200	24.09 (23 to 25.3)	Check Again at 1400
1400	23.66 (23 to 25.2)	Check Again at 1500
1500	24.36	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.45	River Temp Sang Run @700	 7/01/2010	
T9	17.44	River Temp Sang Run @900		
T11	19.10	River Temp Sang Run @1100		
T12	20.39	River Temp Sang Run @1200		
T14	22.16	River Temp Sang Run @1400		
T15	23.31	River Temp Sang Run @1500		
Q	62.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

53 = CFS River Flow at Oakland

July 2, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.54 (23 to 26.4)	Check Again at 0900
0900	23.24 (23 to 25.9)	Check Again at 1100
1100	23.92 (23 to 25.4)	Check Again at 1200
1200	24.00 (23 to 25.3)	Check Again at 1400
1400	20.03 (23 to 25.2)	Check Again at 1500
1500	20.38	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.26	River Temp Sang Run @700		
T9	16.18	River Temp Sang Run @900		
T11	17.91	River Temp Sang Run @1100		
T12	19.21	River Temp Sang Run @1200		
T14	18.75	River Temp Sang Run @1400		
T15	19.36	River Temp Sang Run @1500		
Q	53.00	River Flow at Oakland		

R. McKenna 7/02/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

36 = CFS River Flow at Oakland

July 3, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.15 (23 to 26.4)	Check Again at 0900
0900	25.87 (23 to 25.9)	Check Again at 1100
1100	24.71 (23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	(23 to 25.2)	--
1500		--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.74	River Temp Sang Run @700		
T9	17.67	River Temp Sang Run @900		
T11	18.83	River Temp Sang Run @1100		
T12	20.91	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

R. Mekina 7/03/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

July 4, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.06 (23 to 26.4)	Check Again at 0900
0900	(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		--

Print Info for file

Tair °C	30.58	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	18.04	River Temp Sang Run @700
T9	18.50	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

87
HAZE

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

R. McKenna
7/04/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

July 5, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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		--

WWR from 11AM - 2PM covers this stretch

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	38	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.34	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		

R. McKenna 7/05/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

July 6, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>[Handwritten Signature]</i> <i>7-6-10</i>
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.26	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	29.00	River Flow at Oakland		

[Handwritten Signature]

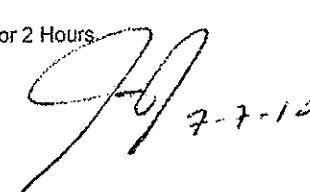
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

27 = CFS River Flow at Oakland

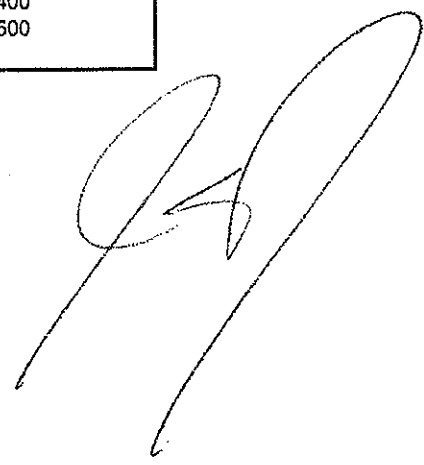
July 7, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 28.4)	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	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.50	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	27.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 8, 2010

Simulate a Ra

Print Info for file

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

Tair °C	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.70	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	25.00	River Flow at Oakland		

J. Miller

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 9, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.15 (23 to 26.4)	Check Again at 0900
0900	25.07 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.16	River Temp Sang Run @700		
T9	20.26	River Temp Sang Run @900		
T11	21.92	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

Handwritten signature and initials

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 10, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.42 (23 to 26.4)	Check Again at 0900
0900	25.45 (23 to 25.9)	Check Again at 1100
1100	25.03 (23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
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	Cloud Cover Factor, Elkins WV	VARCLDY	Cloud Cover, Elkins WV
T7	20.65	River Temp Sang Run @700		
T9	21.54	River Temp Sang Run @900		
T11	22.41	River Temp Sang Run @1100		
T12	23.71	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

John E. ...

R. ... 7/10/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26 = CFS River Flow at Oakland

July 11, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.07 (23 to 28.4)	Check Again at 0900
0900	24.60 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	28.33	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	18.45	River Temp Sang Run @700
T9	18.27	River Temp Sang Run @900
T11	20.45	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

83
MOCLDY

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

R. McKenna
6/11/10

July 11, 2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

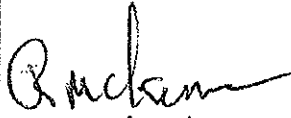
22 = CFS River Flow at Oakland

July 12, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.58 (23 to 26.4)	Check Again at 0900
0900	23.58 (23 to 25.9)	Check Again at 1100
1100	23.13 (23 to 25.4)	Check Again at 1200
1200	22.75 (23 to 25.3)	Check Again at 1400
1400		Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.22	River Temp Sang Run @700	 7/12/2010	
T9	19.33	River Temp Sang Run @900		
T11	19.93	River Temp Sang Run @1100		
T12	20.11	River Temp Sang Run @1200		
T14	18.35	River Temp Sang Run @1400		
T15	18.90	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 13, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.13 (23 to 26.4)	Check Again at 0900
0900	25.32 (23 to 25.9)	Check Again at 1100
1100	24.29 (23 to 25.4)	Check Again at 1200
1200	24.13 (23 to 25.3)	Check Again at 1400
1400	23.85 (23 to 25.2)	Check Again at 1500
1500	23.70	Check Again Tomorrow at 0700

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	19.82	River Temp Sang Run @700		
T9	20.01	River Temp Sang Run @900		
T11	20.51	River Temp Sang Run @1100		
T12	21.03	River Temp Sang Run @1200		
T14	22.20	River Temp Sang Run @1400		
T15	22.67	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

168 = CFS River Flow at Oakland

July 14, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.21 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Print info for file

NOT RFO
Sh...

Tair °C	28.89	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	20.70	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	168.00	River Flow at Oakland

84
SHWRS

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

R. McKenna
7/14/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

90 = CFS River Flow at Oakland

July 15, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.98 (23 to 26.4)	Check Again at 0900
0900	25.39 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

John H. [Signature]
7/15/10

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.05	River Temp Sang Run @700		
T9	21.45	River Temp Sang Run @900		
T11	22.36	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	90.00	River Flow at Oakland		

[Signature]
7.15.10

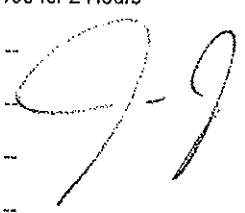
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

48 = CFS River Flow at Oakland

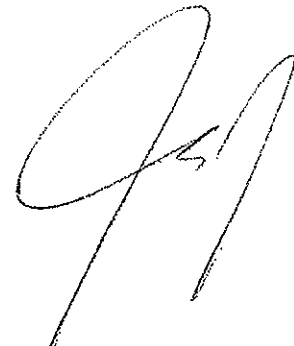
July 16, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.16	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	48.00	River Flow at Oakland		

Coordinates w/ WWT  7-16-10

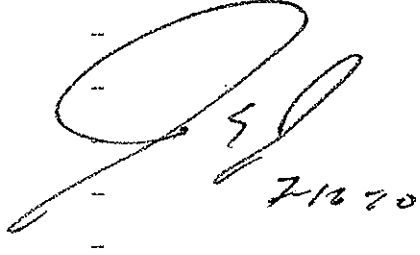
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

July 17, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	20.57	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		

A Corrales w/ WNK

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

July 18, 2010

Simulate a Ra

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 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	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.59	River Temp Sang Run @700		
T9	21.92	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		

7-18-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

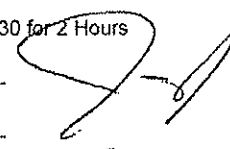
78 = CFS River Flow at Oakland

July 19, 2010

Simulate a Ra

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	25.11 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	-
1400	(23 to 25.2)	-
1500		-


 7-19-10

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	84	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.44	River Temp Sang Run @700		
T9	21.82	River Temp Sang Run @900		
T11	22.70	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	78.00	River Flow at Oakland		

- WWH until 1400 hrs
- we ran until 1430 hrs for safety both

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

106 = CFS River Flow at Oakland

July 20, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.22 (23 to 26.4)	Check Again at 0900
0900	23.63 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>g</i>
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	22.74	River Temp Sang Run @700		
T9	22.75	River Temp Sang Run @900		
T11	23.66	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	106.00	River Flow at Oakland		

g = 2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

70 = CFS River Flow at Oakland

July 21, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.18 (23 to 26.4)	Check Again at 0900
0900	24.14 (23 to 25.9)	Check Again at 1100
1100	25.11 (23 to 25.4)	Check Again at 1200
1200	24.94 (23 to 25.3)	Check Again at 1400
1400	25.07 (23 to 25.2)	Check Again at 1500
1500		Release ASAP - not later than 1530 for 1 hour

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	22.55	River Temp Sang Run @700		
T9	22.48	River Temp Sang Run @900		
T11	22.63	River Temp Sang Run @1100		
T12	22.84	River Temp Sang Run @1200		
T14	23.82	River Temp Sang Run @1400		
T15	24.67	River Temp Sang Run @1500		
Q	70.00	River Flow at Oakland		

John Elkh
R. McKenna 7/21/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

50 = CFS River Flow at Oakland

July 22, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	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	22.02	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	50.00	River Flow at Oakland		

John Shuh
Rumelena 7/22/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

July 23, 2010

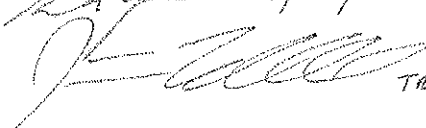
Simulate a Ra

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

Print Info for file

WWR FROM 1100 - 1400

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.72	River Temp Sang Run @700		
T9	22.11	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		

24/7 7/23/10

 TRUDELL

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

July 24, 2010

Simulate a Ra

Print Info for file

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

WWR from 11AM to 5PM stub

Tair °C	32.78	Air Temp, Elkins WV - Degree C	91	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	22.68	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	29.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 25, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.96	River Temp Sang Run @700	<i>Rmctm</i> <i>7/25/10</i>	
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	25.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

112 = CFS River Flow at Oakland

July 26, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.86 (23 to 26.4)	Check Again at 0900
0900	23.81 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>p</i>
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	21.57	River Temp Sang Run @700		
T9	21.86	River Temp Sang Run @900		
T11	23.33	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	112.00	River Flow at Oakland		

J. Miller

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

48 = CFS River Flow at Oakland

July 27, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.70 (23 to 26.4)	Check Again at 0900
0900	24.41 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>f</i>
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	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.43	River Temp Sang Run @700		
T9	20.35	River Temp Sang Run @900		
T11	22.05	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	48.00	River Flow at Oakland		

J. = alllll

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

30 = CFS River Flow at Oakland

July 28, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.76 (23 to 26.4)	Check Again at 0900
0900	25.65 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>J</i>
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.96	River Temp Sang Run @700		
T9	19.98	River Temp Sang Run @900		
T11	21.83	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		

J = all

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 29, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	(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	28.33	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	21.94	River Temp Sang Run @700
T9	22.29	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	25.00	River Flow at Oakland

83
TSTRMS

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

R. McKemp

7/29/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26

= CFS River Flow at Oakland

July 30, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.12 (23 to 25.4)	Check Again at 0900
0900	25.59 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	25.56	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	19.67	River Temp Sang Run @700
T9	20.04	River Temp Sang Run @900
T11	21.68	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

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

Rmckane
7/30/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 31, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.16 (23 to 26.4)	Check Again at 0900
0900	24.44 (23 to 25.9)	Check Again at 1100
1100	24.46 (23 to 25.4)	Check Again at 1200
1200	25.10 (23 to 25.3)	Check Again at 1400
1400	20.74 (23 to 25.2)	Check Again at 1500
1500	21.09	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.91	River Temp Sang Run @700	7/31/10	
T9	19.22	River Temp Sang Run @900		
T11	20.58	River Temp Sang Run @1100		
T12	22.01	River Temp Sang Run @1200		
T14	20.51	River Temp Sang Run @1400		
T15	20.75	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

August 1, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.13 (23 to 26.4)	Check Again at 0900
0900	21.75 (23 to 25.9)	Check Again at 1100
1100	23.09 (23 to 25.4)	Check Again at 1200
1200	24.03 (23 to 25.3)	Check Again at 1400
1400	25.02 (23 to 25.2)	Check Again at 1500
1500	24.53	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	20.19	River Temp Sang Run @700
T9	20.73	River Temp Sang Run @900
T11	21.13	River Temp Sang Run @1100
T12	21.74	River Temp Sang Run @1200
T14	22.58	River Temp Sang Run @1400
T15	23.64	River Temp Sang Run @1500
Q	32.00	River Flow at Oakland

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

R. McLane
8/01/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

22 = CFS River Flow at Oakland

August 2, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.85 (23 to 26.4)	Check Again at 0900
0900	(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	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.22	River Temp Sang Run @700		
T9	19.63	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	22.00	River Flow at Oakland		

WHITE WATER RELEASE TODAY 1100-1400
 Qmct 8/02/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 3, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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		

Print info for file

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	19.95	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		

[Handwritten Signature] 8-3-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 4, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.90 (23 to 26.4)	Check Again at 0900
0900	25.86 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 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	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.80	River Temp Sang Run @700		
T9	20.93	River Temp Sang Run @900		
T11	22.09	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		

[Handwritten Signature]
8-4-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

August 5, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.95 (23 to 26.4)	Check Again at 0900
0900	25.27 (23 to 25.9)	Check Again at 1100
1100	24.73 (23 to 25.4)	Check Again at 1200
1200	23.27 (23 to 25.3)	Check Again at 1400
1400	23.23 (23 to 25.2)	Check Again at 1500
1500	23.06	Check Again Tomorrow at 0700

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	19.93	River Temp Sang Run @700		
T9	20.37	River Temp Sang Run @900		
T11	21.04	River Temp Sang Run @1100		
T12	21.20	River Temp Sang Run @1200		
T14	21.74	River Temp Sang Run @1400		
T15	22.09	River Temp Sang Run @1500		
Q	33.00	River Flow at Oakland		

[Handwritten Signature]
8-5-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

August 6, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.96 (23 to 26.4)	Check Again at 0900
0900	25.39 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	20.67	River Temp Sang Run @700		
T9	20.99	River Temp Sang Run @900		
T11	22.04	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	56.00	River Flow at Oakland		

8-6-10

WWWR release satisfies
temp. enhance run
per permit. 9-2

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

39 = CFS River Flow at Oakland

August 7, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.72 (23 to 26.4)	Check Again at 0900
0900	25.31 (23 to 25.9)	Check Again at 1100
1100	25.31 (23 to 25.4)	Release at 1230 for 2 Hours
1200	25.31 (23 to 25.3)	--
1400	25.21 (23 to 25.2)	--
1500	25.21 (23 to 25.2)	--

Print Info for file

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.91	River Temp Sang Run @700		
T9	18.85	River Temp Sang Run @900		
T11	20.76	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	39.00	River Flow at Oakland		

JSD 8-7-10

WWR from 10:00 am - 1 pm satisfies the temp enhancement protocol per the permit.

JSD

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

24

= CFS River Flow at Oakland

August 8, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.15 (23 to 26.4)	Check Again at 0900
0900	25.75 (23 to 25.9)	Check Again at 1100
1100	25.4 (23 to 25.4)	Release at 1230 for 2 Hours <i>JP</i>
1200	25.3 (23 to 25.3)	--
1400	25.2 (23 to 25.2)	--
1500		--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.79	River Temp Sang Run @700		
T9	18.48	River Temp Sang Run @900		
T11	20.59	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

J. W. [Signature]
TMDCL

8/8/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

August 9, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.6 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Release at 1100 for 2 Hours <i>JP</i>
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Print Info for file

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.10	River Temp Sang Run @700		
T9	19.18	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	18.00	River Flow at Oakland		

J. W. ... TRUDOR 8/9/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

16 = CFS River Flow at Oakland

August 10, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.37	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		

J-J
8-10-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

August 11, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>P</i>
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	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.48	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	15.00	River Flow at Oakland		

J = [Signature] TANDON 8/11/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 12, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	22.07	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		

PS 8-12-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

17 = CFS River Flow at Oakland

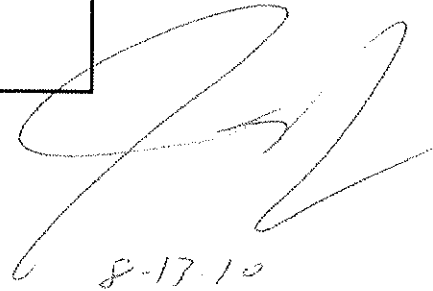
August 13, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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		

Print Info for file

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	21.46	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	17.00	River Flow at Oakland		



8-17-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

August 14, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	
1100	(23 to 25.4)	Release at 1100 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	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.25	River Temp Sang Run @700		
T9	20.32	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	18.00	River Flow at Oakland		

[Handwritten Signature]
8-14-10

- Note:
WWR satisfies Temp run for today.
J=J

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

August 15, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	25.43 (23 to 25.9)	Check Again at 1100
1100	25.77 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.41	River Temp Sang Run @700		
T9	21.28	River Temp Sang Run @900		
T11	22.26	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.00	River Flow at Oakland		

J. J. 8-15-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

August 16, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.41 (23 to 26.4)	Check Again at 0900
0900	(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	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.33	River Temp Sang Run @700		
T9	21.35	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	15.00	River Flow at Oakland		

[Handwritten Signature]
8-16-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

16 = CFS River Flow at Oakland

August 17, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.62 (23 to 26.4)	Check Again at 0900
0900	25.27 (23 to 25.9)	Check Again at 1100
1100	25.80 (23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tyler Nute - system operator
Strickland

Tair °C	28.89	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	19.53	River Temp Sang Run @700
T9	19.39	River Temp Sang Run @900
T11	21.04	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

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

R McKenna
8/17/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

14

= CFS River Flow at Oakland

August 18, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.11 (23 to 26.4)	Check Again at 0900
0900	25.29 (23 to 25.9)	Check Again at 1100
1100	25.41 (23 to 25.4)	Check Again at 1200
1200	25.59 (23 to 25.3)	Check Again at 1400
1400	24.57 (23 to 25.2)	Check Again at 1500
1500	21.41	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	19.31	River Temp Sang Run @700		
T9	19.48	River Temp Sang Run @900		
T11	20.06	River Temp Sang Run @1100		
T12	20.06	River Temp Sang Run @1200		
T14	20.30	River Temp Sang Run @1400		
T15	20.52	River Temp Sang Run @1500		
Q	14.00	River Flow at Oakland		

R. McKenna
8/18/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13

= CFS River Flow at Oakland

August 19, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.16 (23 to 26.4)	Check Again at 0900
0900	25.72 (23 to 25.9)	Check Again at 1100
1100	25.31 (23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	(23 to 25.2)	--
1500		--

Print Info for file

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.07	River Temp Sang Run @700		
T9	18.34	River Temp Sang Run @900		
T11	19.78	River Temp Sang Run @1100		
T12	21.41	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

R. McKinnon 8/19/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13 = CFS River Flow at Oakland

August 20, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.99	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	13.00	River Flow at Oakland		

R. McKenna 8/20/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13 = CFS River Flow at Oakland

August 21, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>J-9</i> <i>8-21-10</i>
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	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.54	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	13.00	River Flow at Oakland		

Note: WWPd substitutes the temp enhancement run for today.
- J-9

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13

= CFS River Flow at Oakland

August 22, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.71 (23 to 26.4)	Check Again at 0900
0900	24.37 (23 to 25.9)	Check Again at 1100
1100	24.69 (23 to 25.4)	Check Again at 1200
1200	24.55 (23 to 25.3)	Check Again at 1400
1400	23.05 (23 to 25.2)	Check Again at 1500
1500	25.01	Check Again Tomorrow at 0700

Print Info for file

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	20.67	River Temp Sang Run @700		
T9	20.45	River Temp Sang Run @900		
T11	20.54	River Temp Sang Run @1100		
T12	20.85	River Temp Sang Run @1200		
T14	21.62	River Temp Sang Run @1400		
T15	22.07	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

July Shedd *John M*
8-22-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

August 23, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.84 (23 to 26.4)	Check Again at 0900
0900	25.70 (23 to 25.9)	Check Again at 1100
1100	25.09 (23 to 25.4)	Check Again at 1200
1200	25.70 (23 to 25.3)	Check Again at 1400
1400	25.08 (23 to 25.2)	Check Again at 1500
1500	24.74	Check Again Tomorrow at 0700

Tair °C	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	19.47	River Temp Sang Run @700		
T9	19.36	River Temp Sang Run @900		
T11	19.88	River Temp Sang Run @1100		
T12	20.23	River Temp Sang Run @1200		
T14	20.65	River Temp Sang Run @1400		
T15	20.95	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

[Handwritten Signature] 8-23-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

24 = CFS River Flow at Oakland

August 24, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	24.55 (23 to 25.9)	Check Again at 1100
1100	22.45 (23 to 25.4)	Check Again at 1200
1200	22.17 (23 to 25.3)	Check Again at 1400
1400	21.25 (23 to 25.2)	Check Again at 1500
1500	20.81	Check Again Tomorrow at 0700

Tair °C	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.77	River Temp Sang Run @700		
T9	18.78	River Temp Sang Run @900		
T11	19.08	River Temp Sang Run @1100		
T12	19.40	River Temp Sang Run @1200		
T14	19.84	River Temp Sang Run @1400		
T15	19.86	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

J. R. M.
8-24-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

August 25, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.32 (23 to 26.4)	Check Again at 0900
0900	24.01 (23 to 25.9)	Check Again at 1100
1100	23.70 (23 to 25.4)	Check Again at 1200
1200	25.75 (23 to 25.3)	Check Again at 1400
1400	23.04 (23 to 25.2)	Check Again at 1500
1500	22.55	Check Again Tomorrow at 0700

Steph...

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	18.44	River Temp Sang Run @700		
T9	18.69	River Temp Sang Run @900		
T11	19.80	River Temp Sang Run @1100		
T12	20.16	River Temp Sang Run @1200		
T14	21.41	River Temp Sang Run @1400		
T15	21.55	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

[Signature]
8-25-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

August 26, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.85 (23 to 26.4)	Check Again at 0900
0900	25.14 (23 to 25.9)	Check Again at 1100
1100	27.36 (23 to 25.4)	Check Again at 1200
1200	26.23 (23 to 25.3)	Check Again at 1400
1400	24.74 (23 to 25.2)	Check Again at 1500
1500	24.26	Check Again Tomorrow at 0700

Shah

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	18.49	River Temp Sang Run @700	<i>R. McKenna 8/26/10</i>	
T9	19.66	River Temp Sang Run @900		
T11	19.84	River Temp Sang Run @1100		
T12	20.60	River Temp Sang Run @1200		
T14	22.88	River Temp Sang Run @1400		
T15	23.11	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

August 27, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.58 (23 to 26.4)	Check Again at 0900
0900	24.19 (23 to 25.9)	Check Again at 1100
1100	24.58 (23 to 25.4)	Check Again at 1200
1200	24.58 (23 to 25.3)	Check Again at 1400
1400	24.21 (23 to 25.2)	Check Again at 1500
1500	24.10	Check Again Tomorrow at 0700

Print Info for file

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	17.40	River Temp Sang Run @700		
T9	16.98	River Temp Sang Run @900		
T11	18.74	River Temp Sang Run @1100		
T12	20.20	River Temp Sang Run @1200		
T14	22.18	River Temp Sang Run @1400		
T15	23.11	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

Qmctema 8/27/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

13 = CFS River Flow at Oakland

August 28, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.89 (23 to 26.4)	Check Again at 0900
0900	24.85 (23 to 25.9)	Check Again at 1100
1100	24.85 (23 to 25.4)	Check Again at 1200
1200	25.09 (23 to 25.3)	Check Again at 1400
1400	23.59 (23 to 25.2)	Check Again at 1500
1500	23.76	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	HAZE	Cloud Cover, Elkins WV
T7	16.63	River Temp Sang Run @700		
T9	16.82	River Temp Sang Run @900		
T11	18.28	River Temp Sang Run @1100		
T12	20.02	River Temp Sang Run @1200		
T14	21.51	River Temp Sang Run @1400		
T15	22.40	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

R. McKenna 8/28/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

12 = CFS River Flow at Oakland

August 29, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.32 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Print Info for file

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	17.55	River Temp Sang Run @700		
T9	17.60	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	12.00	River Flow at Oakland		

R. McKenna 8/29/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

10 = CFS River Flow at Oakland

August 30, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	18.75	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	10.00	River Flow at Oakland		

R. McKenna 8/30/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

10 = CFS River Flow at Oakland

August 31, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>J-9</i> <i>8-31-10</i>
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Print Info for file

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	18.40	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	10.00	River Flow at Oakland		

Note: LAST DAY FOR TEMP PRETUCA