

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

Deep Creek Hydroelectric Station

2013 Annual Report

**Maryland Department of the Environment
Water Appropriation and Use Permit No. GA1992S009(08)**

January 2014

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 June 17, 2011, (effective June 1, 2011), that provides for the continued operation of the Deep Creek Hydroelectric Project. 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

Brookfield operates the Project according to the Operating Rules specified in the 2011 Permit such that water elevations in Deep Creek Lake are maintained within the Operating Rule Band except that excursions of up to 0.3 feet above the Operating Rule Band lasting not more than 21 days are allowed from May through October, and except in the event of unusual or emergency conditions as defined in the 2011 Permit. The Upper Rule Band (URB) and Lower Rule Band (LRB) are the highest and lowest desirable reservoir levels at the end of each month.

Pursuant to the 2011 Permit, Brookfield measures and records the water elevations in the Deep Creek Lake via a gage at the intake structure near the dam at approximately the same time each day.

1.1.1 End-of-Month Levels

Reservoir levels were above/below the URB at the end of the month as presented in Table 1. Daily lake level data for 2013 is presented in tabular and graphical format in Appendix A.

TABLE 1
END OF MONTH LAKE LEVEL (IN FEET) ABOVE / BELOW URB

MONTH OF YEAR	FEET ABOVE (+) or BELOW (-) URB
January	+ 0.1
February	+ 0.2
March	-0.5
April	+ 0.2
May	0.0
June	+ 0.1
July	- 0.7
August	- 0.2
September	- 0.3
October	- 0.1
November	- 0.8
December	- 0.1

1.1.2 Daily Levels

The following summary describes the daily variances of the URB and LRB, and Appendix A provides a graphical and tabular summary of these daily variances.

- The lake level exceeded the URB from January 1 to January 22, with exceedances ranging from 0.1 to 1.1 feet. There were also exceedances on January 29, 30, and 31 with levels above the URB at 0.1, 0.2, and 0.1 feet respectively.
- There were excursions above the URB on Feb 1 and 2 of 0.1 feet. The lake level exceeded the URB again from February 11 to February 22, with exceedances ranging from 0.1 to 0.3 feet. There were also URB exceedances on February 26, 27, and 28 with levels of 0.1, 0.2, and 0.2 feet respectively.
- Exceedances of the URB occurred between March 1 and March 7 ranging from 0.1 to 0.3 feet. The lake level exceeded the URB again from March 13 to March 20, ranging from 0.1 to 0.3 feet. Both generators were taken offline at 7:45 AM on March 25 for scheduled turbine inlet valve (TIV) replacements, and the units remained out of service for the remainder of the month. Although the lake level rose subtly, it remained below the URB during this outage.

- On April 11 (following an 18 day plant outage) Units 1 and 2 were put back into service after completing the new TIV installations. The lake level exceeded the URB from April 4 to May 17, with variations ranging from 0.1 to 0.6 feet. Permission was received from the MDE to run 0.25 feet above the URB from April 15 through the end of the month to facilitate TIV replacements for both generators. The lake level also exceeded the URB on May 23 by 0.1 feet.
- The lake level exceeded the URB again from June 14 to June 27, with exceedances ranging from 0.1 to 0.2 feet. There were also exceedances on June 29 and 30 with a level of 0.1 feet for both days
- July 1 and 2 had URB exceedances of 0.1 feet for both days. An exceedance of 0.1 feet above the URB occurred on July 5 and 0.2 above URB on July 6. From July 7 to 11, the lake level exceeded the URB by 0.1 feet on each day.
- On August 29, the lake level exceeded the URB by 0.1 feet.

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).¹ The plan was designed to maintain water temperatures below 25 degrees Celsius (°C) in the Youghiogheny River.

By reports dated July 2, August 5, and September 4, 2013, Brookfield provided the MDE with dates when temperature excursions occurred 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

² By letter dated January 9, 2009, MDE provided Brookfield a copy of the January 2009 revision to the Deep Creek Station Youghiogheny River Water Temperature Enhancement Plan, and notified Brookfield that MDE planned to formally adopt the revised protocol on February 1, 2009. By letter dated January 30, 2009, Brookfield notified MDE that Brookfield concurred with the Revised Temperature Enhancement Plan protocol and would incorporate these changes into the model for the 2009 temperature monitoring period.

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. In the June 2013 Temperature Monitoring Report, Brookfield provided notification that a failure of the Sang Run temperature monitor was noticed on Sunday, June 9; however, the device could not be replaced until the following day, Monday, June 10 due to safety concerns. The failure likely occurred on Saturday, June 8 due to the suspect data recorded that day. Significant and abnormal excursions greater than 25° C were recorded on June 8, 9, and 10, , as well as missing temperature data (June 10 from 8:20-9:50 and 10:20-11:30), but river flows were in excess of 150 cubic feet per second (cfs) at the Hoyes Run Gage (No. 03076100).

Temperature recordings for June 8 through 10 from a backup monitor-recorder are provided in Appendix B adjacent to the suspect data. The backup data recorded for June 8, 9, and 10, 2013, indicates that no temperature excursions occurred in this timeframe.

In addition to the above, there were two temperature excursions $\geq 25^{\circ}\text{C}$ occurring on June 23 and 25. Two excursions $\geq 25^{\circ}\text{C}$ occurred on July 14 and 18, and one excursion in excess of 25°C occurred on August 6.

Appendix B presents the Water Temperature Enhancement Plan data prediction sheets, the results of Sang Run temperature monitoring, and any excursions during the period from June 1 through August 31, 2013. Brookfield conducted eight specific temperature enhancement releases (TERs) in 2013 as shown in Table 2 below.

TABLE 2
TEMPERATURE ENHANCEMENT PLAN RELEASE DATES

2013 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW AT OAKLAND GAGE (CFS)
June 1	12:30	14:30	80
June 9	12:30	14:30	85
June 25	12:30	14:30	121
June 26	12:30	14:30	103
July 16	09:45	19:00	112

2013 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW AT OAKLAND GAGE (CFS)
July 17	12:00	19:00	103
July 18	12:30	19:00	88
August 6	15:00	16:00	54

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 and August 2012). The flow bypass protocol requires Brookfield to maintain a minimum flow of 40 cfs in the Youghiogheny River immediately downstream of the tailrace. Brookfield monitored the river daily flows at the Hoyes Run (Gage No. 03076100). 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.

Brookfield did not provide enhanced bypass flow to the Youghiogheny River below the project tailrace during 2013 due to daily river flows exceeding 40 cfs at the Hoyes Run Gage, which is located approximately ¼ mile downstream of the tailrace outflow. The daily monitoring log sheets are included in Appendix C along with a blank summary table of bypass openings to retain report formatting for future use.

1.4 Dissolved Oxygen Monitoring

Brookfield operated the dissolved oxygen (DO) enhancement weir during 2013 in accordance with the Dissolved Oxygen Enhancement Operations and Monitoring Protocol approved by the MDE on January 6, 1995. All data obtained from DO monitoring in 2013 are included in Appendix D.

- From June 1 to July 12, the instantaneous DO measurements remained above 5 milligrams per liter (mg/L).

- Instantaneous DO measurements started trending downward in mid-July, and on July 18, two of the four sluice gates were completely closed. The remaining two gates were closed to within six inches of the bottom to retain fish passage.
- In July, DO measurements ranged from a low of 1.94 mg/L on July 29 to a high of 7.20 mg/L on July 20.
- In August, instantaneous DO measurements ranged from a low of 1.46 mg/L on August 26 to a high of 6.36 mg/L on August 17.
- In September, instantaneous DO measurements ranged from a low of 1.32 mg/L on September 6 to a high of 7.28 mg/L on September 16 and 17. The daily average was 4.82 mg/L.

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 Project, based on flows at the Friendsville gage and water levels at the Deep Creek Lake gage.

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 2013.

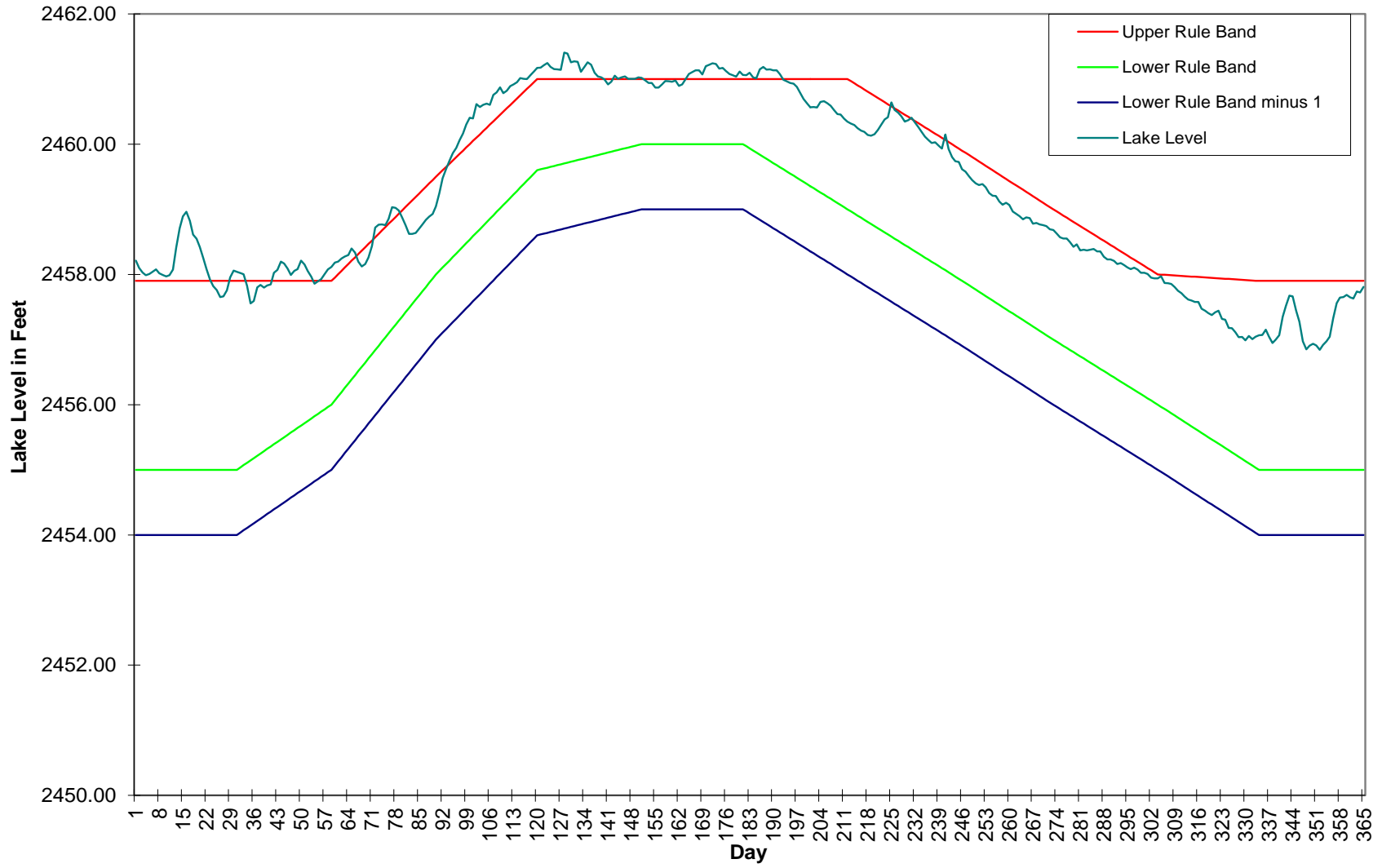
1.6 Zebra Mussel Monitoring

Artificial substrates placed at the Project intake area during 2013 showed no signs of zebra mussel infestation. Appendix F contains the 2013 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 - 2013



Deep Creek Daily Lake Level 2013

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	2458.2	0.00	Feb	1	2458.0	0.00	Mar	1	2458.2	0.08
	2	2458.1	0.00		2	2458.0	0.50		2	2458.2	0.09
	3	2458.0	0.00		3	2457.8	0.15		3	2458.2	0.03
	4	2458.0	0.00		4	2457.6	0.45		4	2458.3	0.00
	5	2458.0	0.00		5	2457.6	0.22		5	2458.3	0.50
	6	2458.0	0.05		6	2457.8	0.00		6	2458.4	0.17
	7	2458.1	0.00		7	2457.8	0.00		7	2458.3	0.04
	8	2458.0	0.00		8	2457.8	0.23		8	2458.2	0.00
	9	2458.0	0.05		9	2457.8	0.00		9	2458.1	0.00
	10	2458.0	0.00		10	2457.8	0.00		10	2458.2	0.00
	11	2458.0	0.35		11	2458.0	0.00		11	2458.3	0.50
	12	2458.1	0.00		12	2458.1	0.00		12	2458.4	0.07
	13	2458.4	0.15		13	2458.2	0.25		13	2458.7	0.15
	14	2458.7	0.17		14	2458.2	0.00		14	2458.8	0.00
	15	2458.9	0.65		15	2458.1	0.10		15	2458.8	0.05
	16	2459.0	0.11		16	2458.0	0.09		16	2458.8	0.00
	17	2458.8	0.00		17	2458.1	0.11		17	2458.9	0.22
	18	2458.6	0.00		18	2458.1	0.00		18	2459.0	0.66
	19	2458.5	0.00		19	2458.2	0.25		19	2459.0	0.00
	20	2458.4	0.00		20	2458.2	0.02		20	2459.0	0.06
	21	2458.3	0.05		21	2458.1	0.00		21	2458.9	0.03
	22	2458.1	0.00		22	2458.0	0.07		22	2458.8	0.00
	23	2457.9	0.11		23	2457.9	0.00		23	2458.6	0.00
	24	2457.8	0.02		24	2457.9	0.02		24	2458.6	0.73
	25	2457.8	0.10		25	2457.9	0.00		25	2458.6	0.15
	26	2457.7	0.05		26	2458.0	0.50		26	2458.7	0.19
	27	2457.7	0.15		27	2458.1	0.17		27	2458.8	0.15
	28	2457.8	0.76		28	2458.1	0.22		28	2458.8	0.00
	29	2458.0	0.00						29	2458.9	0.00
	30	2458.1	1.20						30	2458.9	0.00
	31	2458.0	0.22						31	2459.0	0.00
Total			4.19				3.35				3.87

Deep Creek Daily Lake Level 2013

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	2459.2	0.19	May	1	2461.2	0.00	Jun	1	2461.0	0.00
	2	2459.5	0.00		2	2461.2	0.00		2	2460.9	0.10
	3	2459.6	0.00		3	2461.2	0.00		3	2460.9	0.00
	4	2459.7	0.00		4	2461.2	0.00		4	2460.9	0.00
	5	2459.9	0.00		5	2461.2	0.00		5	2460.9	0.09
	6	2459.9	0.00		6	2461.1	0.07		6	2460.9	0.40
	7	2460.1	0.02		7	2461.1	1.20		7	2461.0	0.35
	8	2460.2	0.00		8	2461.4	0.53		8	2461.0	0.00
	9	2460.3	0.00		9	2461.4	0.00		9	2461.0	0.14
	10	2460.4	0.00		10	2461.3	0.51		10	2461.0	0.15
	11	2460.4	0.65		11	2461.3	0.80		11	2460.9	0.10
	12	2460.6	0.20		12	2461.3	0.00		12	2460.9	0.33
	13	2460.6	0.00		13	2461.1	0.00		13	2461.0	0.94
	14	2460.6	0.00		14	2461.2	0.03		14	2461.1	0.00
	15	2460.6	0.02		15	2461.3	0.45		15	2461.1	0.00
	16	2460.6	0.60		16	2461.2	0.20		16	2461.1	0.06
	17	2460.8	0.00		17	2461.1	0.00		17	2461.1	0.15
	18	2460.8	0.00		18	2461.0	0.05		18	2461.1	0.45
	19	2460.9	0.30		19	2461.0	0.00		19	2461.2	0.00
	20	2460.8	0.00		20	2461.0	0.00		20	2461.2	0.00
	21	2460.8	0.00		21	2460.9	0.00		21	2461.2	0.00
	22	2460.9	0.00		22	2461.0	0.43		22	2461.2	0.00
	23	2460.9	0.00		23	2461.1	0.14		23	2461.2	0.00
	24	2461.0	0.15		24	2461.0	0.03		24	2461.2	0.00
	25	2461.0	0.00		25	2461.0	0.00		25	2461.1	0.00
	26	2461.0	0.00		26	2461.0	0.00		26	2461.1	0.35
	27	2461.0	0.00		27	2461.0	0.03		27	2461.1	1.00
	28	2461.1	0.38		28	2461.0	0.00		28	2461.0	0.37
	29	2461.1	0.10		29	2461.0	0.00		29	2461.1	0.00
	30	2461.2	0.00		30	2461.0	0.00		30	2461.1	0.30
					31	2461.0	0.00				
Total			2.61				4.47				5.28

Deep Creek Daily Lake Level 2013

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Jul	1	2461.1	0.30	Aug	1	2460.3	0.04	Sep	1	2459.7	0.00
	2	2461.1	0.00		2	2460.3	0.00		2	2459.7	0.03
	3	2461.0	0.03		3	2460.2	0.25		3	2459.6	0.00
	4	2461.0	0.00		4	2460.2	0.00		4	2459.6	0.00
	5	2461.1	0.24		5	2460.2	0.00		5	2459.5	0.00
	6	2461.2	0.00		6	2460.1	0.00		6	2459.4	0.00
	7	2461.1	0.72		7	2460.1	0.51		7	2459.4	0.00
	8	2461.1	0.09		8	2460.2	1.45		8	2459.4	0.00
	9	2461.1	0.59		9	2460.2	0.67		9	2459.4	0.00
	10	2461.1	0.00		10	2460.3	0.00		10	2459.3	0.00
	11	2461.1	0.20		11	2460.4	0.00		11	2459.3	0.06
	12	2461.0	0.30		12	2460.4	2.00		12	2459.2	0.25
	13	2461.0	0.00		13	2460.6	0.25		13	2459.2	0.00
	14	2460.9	0.04		14	2460.5	0.00		14	2459.1	0.00
	15	2460.9	0.00		15	2460.5	0.00		15	2459.1	0.15
	16	2460.9	0.04		16	2460.4	0.00		16	2459.1	0.08
	17	2460.8	0.00		17	2460.3	0.12		17	2459.1	0.00
	18	2460.7	0.00		18	2460.4	0.13		18	2459.0	0.00
	19	2460.6	0.10		19	2460.4	0.00		19	2458.9	0.00
	20	2460.6	0.52		20	2460.3	0.00		20	2458.9	0.00
	21	2460.6	0.00		21	2460.3	0.16		21	2458.8	0.65
	22	2460.6	1.53		22	2460.2	0.19		22	2458.9	0.00
	23	2460.6	0.40		23	2460.1	0.29		23	2458.9	0.00
	24	2460.7	0.00		24	2460.1	0.00		24	2458.8	0.00
	25	2460.6	0.00		25	2460.0	0.00		25	2458.8	0.00
	26	2460.6	0.00		26	2460.0	0.00		26	2458.8	0.00
	27	2460.5	0.25		27	2460.0	0.50		27	2458.8	0.00
	28	2460.5	0.00		28	2459.9	3.04		28	2458.7	0.00
	29	2460.5	0.00		29	2460.1	0.00		29	2458.7	0.00
	30	2460.4	0.00		30	2459.9	0.00		30	2458.7	0.00
	31	2460.3	0.07		31	2459.8	0.00				
Total			5.42				9.60				1.22

Deep Creek Daily Lake Level 2013

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	2458.6	0.00	Nov	1	2458.0	0.05	Dec	1	2457.1	0.00
	2	2458.6	0.00		2	2457.9	0.10		2	2457.2	0.00
	3	2458.6	0.00		3	2457.9	0.00		3	2457.0	0.00
	4	2458.6	0.00		4	2457.9	0.00		4	2456.9	0.00
	5	2458.5	0.00		5	2457.8	0.00		5	2457.0	0.81
	6	2458.4	0.03		6	2457.7	0.20		6	2457.1	0.95
	7	2458.5	0.35		7	2457.7	0.20		7	2457.3	0.00
	8	2458.4	0.00		8	2457.7	0.00		8	2457.5	0.55
	9	2458.4	0.00		9	2457.6	0.00		9	2457.7	0.00
	10	2458.4	0.30		10	2457.6	0.00		10	2457.7	0.05
	11	2458.4	0.10		11	2457.6	0.20		11	2457.4	0.03
	12	2458.4	0.02		12	2457.6	0.04		12	2457.3	0.00
	13	2458.4	0.00		13	2457.5	0.00		13	2457.0	0.02
	14	2458.4	0.00		14	2457.4	0.00		14	2456.8	0.61
	15	2458.3	0.00		15	2457.4	0.00		15	2456.9	0.10
	16	2458.2	0.05		16	2457.4	0.10		16	2456.9	0.00
	17	2458.2	0.25		17	2457.4	0.25		17	2456.9	0.40
	18	2458.2	0.00		18	2457.4	0.00		18	2456.8	0.00
	19	2458.2	0.13		19	2457.3	0.02		19	2456.9	0.00
	20	2458.2	0.00		20	2457.3	0.00		20	2457.0	0.02
	21	2458.1	0.00		21	2457.2	0.00		21	2457.0	0.30
	22	2458.1	0.18		22	2457.2	0.40		22	2457.3	0.31
	23	2458.1	0.54		23	2457.1	0.06		23	2457.6	0.12
	24	2458.1	0.10		24	2457.0	0.00		24	2457.6	0.06
	25	2458.1	0.00		25	2457.0	0.00		25	2457.7	0.03
	26	2458.0	0.00		26	2457.0	1.10		26	2457.7	0.02
	27	2458.0	0.00		27	2457.1	0.10		27	2457.6	0.00
	28	2458.0	0.00		28	2457.0	0.00		28	2457.6	0.25
	29	2458.0	0.00		29	2457.0	0.00		29	2457.7	0.95
	30	2457.9	0.00		30	2457.1	0.00		30	2457.7	0.00
	31	2457.9	0.27						31	2457.8	0.07
Total			2.32				2.82				5.65
										Year Total	50.80

**SUMMARY OF DAILY VARIANCES OF THE
UPPER AND LOWER RULE BANDS - 2013**

SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER RULE BANDS - 2013

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
1/1/2013	2458.2	2457.90	2455.00	0.3
1/2/2013	2458.1	2457.90	2455.00	0.2
1/3/2013	2458.0	2457.90	2455.00	0.1
1/4/2013	2458.0	2457.90	2455.00	0.1
1/4/2013	2458.0	2457.90	2455.00	0.1
1/5/2013	2458.0	2457.90	2455.00	0.1
1/6/2013	2458.1	2457.90	2455.00	0.2
1/7/2013	2458.0	2457.90	2455.00	0.1
1/8/2013	2458.0	2457.90	2455.00	0.1
1/9/2013	2458.0	2457.90	2455.00	0.1
1/10/2013	2458.0	2457.90	2455.00	0.1
1/11/2013	2458.1	2457.90	2455.00	0.2
1/12/2013	2458.4	2457.90	2455.00	0.5
1/13/2013	2458.7	2457.90	2455.00	0.8
1/14/2013	2458.9	2457.90	2455.00	1.0
1/15/2013	2459.0	2457.90	2455.00	1.1
1/16/2013	2458.6	2457.90	2455.00	0.7
1/17/2013	2458.5	2457.90	2455.00	0.6
1/18/2013	2458.4	2457.90	2455.00	0.5
1/19/2013	2458.3	2457.90	2455.00	0.3
1/20/2013	2458.1	2457.90	2455.00	0.2
1/21/2013	2458.2	2457.90	2455.00	0.3
1/22/2013	2458.1	2457.90	2455.00	0.2
1/29/2013	2458.0	2457.90	2455.00	0.1
1/30/2013	2458.1	2457.90	2455.00	0.2
1/31/2013	2458.0	2457.90	2455.00	0.1
2/1/2013	2458.0	2457.90	2455.00	0.1
2/2/2013	2458.0	2457.90	2455.04	0.2
2/11/2013	2458.0	2457.90	2455.36	0.3
2/12/2013	2458.1	2457.90	2455.39	0.3
2/13/2013	2458.2	2457.90	2455.43	0.2
2/14/2013	2458.2	2457.90	2455.46	0.1
2/15/2013	2458.1	2457.90	2455.50	0.2
2/16/2013	2458.0	2457.90	2455.54	0.2
2/17/2013	2458.1	2457.90	2455.57	0.3
2/18/2013	2458.1	2457.90	2455.61	0.3
2/19/2013	2458.2	2457.90	2455.64	0.2
2/20/2013	2458.2	2457.90	2455.68	0.1
2/21/2013	2458.1	2457.90	2455.71	0.1
2/22/2013	2458.0	2457.90	2455.75	0.2
2/26/2013	2458.0	2457.90	2455.89	0.1
2/27/2013	2458.1	2457.90	2455.93	0.2
2/28/2013	2458.1	2457.90	2455.96	0.2
3/1/2013	2458.2	2457.90	2456.00	0.3
3/2/2013	2458.2	2457.95	2456.06	0.2
3/3/2013	2458.2	2458.00	2456.13	0.2
3/4/2013	2458.3	2458.05	2456.19	0.2
3/5/2013	2458.3	2458.11	2456.26	0.2
3/6/2013	2458.4	2458.16	2456.32	0.2

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
3/7/2013	2458.3	2458.21	2456.39	0.1
3/13/2013	2458.7	2458.52	2456.77	0.2
3/14/2013	2458.8	2458.57	2456.84	0.2
3/15/2013	2458.8	2458.62	2456.90	0.1
3/16/2013	2458.8	2458.67	2456.97	0.1
3/17/2013	2458.9	2458.73	2457.03	0.1
3/18/2013	2459.0	2458.78	2457.10	0.3
3/19/2013	2459.0	2458.83	2457.16	0.2
3/20/2013	2459.0	2458.88	2457.23	0.1
4/4/2013	2459.7	2459.65	2458.16	0.1
4/5/2013	2459.9	2459.70	2458.21	0.2
4/6/2013	2459.9	2459.75	2458.27	0.2
4/7/2013	2460.1	2459.80	2458.32	0.3
4/8/2013	2460.2	2459.85	2458.37	0.3
4/9/2013	2460.3	2459.90	2458.43	0.4
4/10/2013	2460.4	2459.95	2458.48	0.5
4/11/2013	2460.4	2460.00	2458.53	0.4
4/12/2013	2460.6	2460.05	2458.59	0.6
4/13/2013	2460.6	2460.10	2458.64	0.5
4/14/2013	2460.6	2460.15	2458.69	0.5
4/15/2013	2460.6	2460.20	2458.75	0.4
4/16/2013	2460.6	2460.25	2458.80	0.4
4/17/2013	2460.8	2460.30	2458.85	0.5
4/18/2013	2460.8	2460.35	2458.91	0.4
4/19/2013	2460.9	2460.40	2458.96	0.5
4/20/2013	2460.8	2460.45	2459.01	0.3
4/21/2013	2460.8	2460.50	2459.07	0.3
4/22/2013	2460.9	2460.55	2459.12	0.3
4/23/2013	2460.9	2460.60	2459.17	0.3
4/24/2013	2461.0	2460.65	2459.23	0.3
4/25/2013	2461.0	2460.70	2459.28	0.3
4/26/2013	2461.0	2460.75	2459.33	0.3
4/27/2013	2461.0	2460.80	2459.39	0.2
4/28/2013	2461.1	2460.85	2459.44	0.2
4/29/2013	2461.1	2460.90	2459.49	0.2
4/30/2013	2461.2	2460.95	2459.55	0.2
5/1/2013	2461.2	2461.00	2459.60	0.2
5/2/2013	2461.2	2461.00	2459.61	0.2
5/3/2013	2461.2	2461.00	2459.63	0.2
5/4/2013	2461.2	2461.00	2459.64	0.2
5/5/2013	2461.2	2461.00	2459.65	0.2
5/6/2013	2461.1	2461.00	2459.66	0.1
5/7/2013	2461.1	2461.00	2459.68	0.1
5/8/2013	2461.4	2461.00	2459.69	0.4
5/9/2013	2461.4	2461.00	2459.70	0.4
5/10/2013	2461.3	2461.00	2459.72	0.3
5/11/2013	2461.3	2461.00	2459.73	0.3
5/12/2013	2461.3	2461.00	2459.74	0.3
5/13/2013	2461.1	2461.00	2459.75	0.1
5/14/2013	2461.2	2461.00	2459.77	0.2

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
5/15/2013	2461.3	2461.00	2459.78	0.3
5/16/2013	2461.2	2461.00	2459.79	0.2
5/17/2013	2461.1	2461.00	2459.81	0.1
5/23/2013	2461.1	2461.00	2459.88	0.1
6/14/2013	2461.1	2461.00	2460.00	0.1
6/15/2013	2461.1	2461.00	2460.00	0.1
6/16/2013	2461.1	2461.00	2460.00	0.1
6/17/2013	2461.1	2461.00	2460.00	0.1
6/18/2013	2461.1	2461.00	2460.00	0.1
6/19/2013	2461.2	2461.00	2460.00	0.2
6/20/2013	2461.2	2461.00	2460.00	0.2
6/21/2013	2461.2	2461.00	2460.00	0.2
6/22/2013	2461.2	2461.00	2460.00	0.2
6/23/2013	2461.2	2461.00	2460.00	0.2
6/24/2013	2461.2	2461.00	2460.00	0.2
6/25/2013	2461.1	2461.00	2460.00	0.1
6/26/2013	2461.1	2461.00	2460.00	0.1
6/27/2013	2461.1	2461.00	2460.00	0.1
6/29/2013	2461.1	2461.00	2460.00	0.1
6/30/2013	2461.1	2461.00	2460.00	0.1
7/1/2013	2461.1	2461.00	2460.00	0.1
7/2/2013	2461.1	2461.00	2459.97	0.1
7/5/2013	2461.1	2461.00	2459.87	0.1
7/6/2013	2461.2	2461.00	2459.84	0.2
7/7/2013	2461.1	2461.00	2459.81	0.1
7/8/2013	2461.1	2461.00	2459.77	0.1
7/9/2013	2461.1	2461.00	2459.74	0.1
7/10/2013	2461.1	2461.00	2459.71	0.1
7/11/2013	2461.1	2461.00	2459.68	0.1
8/29/2013	2460.1	2460.06	2458.10	0.1

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 via telephone modem from the instrument by a Brookfield Compliance Specialist located at the Deep Creek Hydroelectric Project.

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

Station Name

Sangrun

6/1/2013	0:00:00	18.01
6/1/2013	0:10:00	18.17
6/1/2013	0:20:00	18.30
6/1/2013	0:30:00	18.45
6/1/2013	0:40:00	18.56
6/1/2013	0:50:00	18.65
6/1/2013	1:00:00	18.72
6/1/2013	1:10:00	18.79
6/1/2013	1:20:00	18.86
6/1/2013	1:30:00	18.92
6/1/2013	1:40:00	18.96
6/1/2013	1:50:00	19.00
6/1/2013	2:00:00	19.01
6/1/2013	2:10:00	19.01
6/1/2013	2:20:00	19.00
6/1/2013	2:30:00	19.01
6/1/2013	2:40:00	19.03
6/1/2013	2:50:00	19.02
6/1/2013	3:00:00	19.00
6/1/2013	3:10:00	19.02
6/1/2013	3:20:00	18.98
6/1/2013	3:30:00	18.98
6/1/2013	3:40:00	18.95
6/1/2013	3:50:00	18.94
6/1/2013	4:00:00	18.93
6/1/2013	4:10:00	18.91
6/1/2013	4:20:00	18.88
6/1/2013	4:30:00	18.89
6/1/2013	4:40:00	18.88
6/1/2013	4:50:00	18.88
6/1/2013	5:00:00	18.86
6/1/2013	5:10:00	18.86
6/1/2013	5:20:00	18.85
6/1/2013	5:30:00	18.84
6/1/2013	5:40:00	18.83
6/1/2013	5:50:00	18.83
6/1/2013	6:00:00	18.81
6/1/2013	6:10:00	18.81
6/1/2013	6:20:00	18.81
6/1/2013	6:30:00	18.80
6/1/2013	6:40:00	18.80
6/1/2013	6:50:00	18.79
6/1/2013	7:00:00	18.80
6/1/2013	7:10:00	18.79
6/1/2013	7:20:00	18.80

6/1/2013	7:30:00	18.81
6/1/2013	7:40:00	18.83
6/1/2013	7:50:00	18.84
6/1/2013	8:00:00	18.86
6/1/2013	8:10:00	18.89
6/1/2013	8:20:00	18.93
6/1/2013	8:30:00	18.98
6/1/2013	8:40:00	19.04
6/1/2013	8:50:00	19.10
6/1/2013	9:00:00	19.18
6/1/2013	9:10:00	19.28
6/1/2013	9:20:00	19.39
6/1/2013	9:30:00	19.55
6/1/2013	9:40:00	19.66
6/1/2013	9:50:00	19.65
6/1/2013	10:00:00	19.75
6/1/2013	10:10:00	19.87
6/1/2013	10:20:00	19.99
6/1/2013	10:30:00	20.13
6/1/2013	10:40:00	20.25
6/1/2013	10:50:00	20.40
6/1/2013	11:00:00	20.58
6/1/2013	11:10:00	20.81
6/1/2013	11:20:00	21.02
6/1/2013	11:30:00	21.21
6/1/2013	11:40:00	21.39
6/1/2013	11:50:00	21.60
6/1/2013	12:00:00	21.85
6/1/2013	12:10:00	22.00
6/1/2013	12:20:00	22.18
6/1/2013	12:30:00	22.42
6/1/2013	12:40:00	22.61
6/1/2013	12:50:00	22.81
6/1/2013	13:00:00	23.02
6/1/2013	13:10:00	23.35
6/1/2013	13:20:00	23.60
6/1/2013	13:30:00	23.71
6/1/2013	13:40:00	23.75
6/1/2013	13:50:00	23.75
6/1/2013	14:00:00	23.88
6/1/2013	14:10:00	23.94
6/1/2013	14:20:00	23.90
6/1/2013	14:30:00	23.75
6/1/2013	14:40:00	23.32
6/1/2013	14:50:00	21.62
6/1/2013	15:00:00	20.10
6/1/2013	15:10:00	19.65

6/1/2013	15:20:00	19.35
6/1/2013	15:30:00	19.08
6/1/2013	15:40:00	18.87
6/1/2013	15:50:00	18.75
6/1/2013	16:00:00	18.76
6/1/2013	16:10:00	18.82
6/1/2013	16:20:00	18.88
6/1/2013	16:30:00	19.01
6/1/2013	16:40:00	19.17
6/1/2013	16:50:00	19.39
6/1/2013	17:00:00	19.58
6/1/2013	17:10:00	19.77
6/1/2013	17:20:00	19.92
6/1/2013	17:30:00	20.07
6/1/2013	17:40:00	20.25
6/1/2013	17:50:00	20.38
6/1/2013	18:00:00	20.52
6/1/2013	18:10:00	20.62
6/1/2013	18:20:00	20.75
6/1/2013	18:30:00	20.84
6/1/2013	18:40:00	20.89
6/1/2013	18:50:00	20.91
6/1/2013	19:00:00	20.93
6/1/2013	19:10:00	20.93
6/1/2013	19:20:00	20.84
6/1/2013	19:30:00	20.80
6/1/2013	19:40:00	20.79
6/1/2013	19:50:00	20.80
6/1/2013	20:00:00	20.87
6/1/2013	20:10:00	20.97
6/1/2013	20:20:00	21.07
6/1/2013	20:30:00	21.17
6/1/2013	20:40:00	21.26
6/1/2013	20:50:00	21.34
6/1/2013	21:00:00	21.41
6/1/2013	21:10:00	21.47
6/1/2013	21:20:00	21.53
6/1/2013	21:30:00	21.57
6/1/2013	21:40:00	21.61
6/1/2013	21:50:00	21.62
6/1/2013	22:00:00	21.62
6/1/2013	22:10:00	21.62
6/1/2013	22:20:00	21.60
6/1/2013	22:30:00	21.61
6/1/2013	22:40:00	21.58
6/1/2013	22:50:00	21.54
6/1/2013	23:00:00	21.51

6/1/2013	23:10:00	21.47
6/1/2013	23:20:00	21.42
6/1/2013	23:30:00	21.38
6/1/2013	23:40:00	21.33
6/1/2013	23:50:00	21.27
6/2/2013	0:00:00	21.22
6/2/2013	0:10:00	21.16
6/2/2013	0:20:00	21.11
6/2/2013	0:30:00	21.06
6/2/2013	0:40:00	21.00
6/2/2013	0:50:00	20.95
6/2/2013	1:00:00	20.89
6/2/2013	1:10:00	20.84
6/2/2013	1:20:00	20.79
6/2/2013	1:30:00	20.74
6/2/2013	1:40:00	20.70
6/2/2013	1:50:00	20.65
6/2/2013	2:00:00	20.60
6/2/2013	2:10:00	20.55
6/2/2013	2:20:00	20.48
6/2/2013	2:30:00	20.45
6/2/2013	2:40:00	20.41
6/2/2013	2:50:00	20.36
6/2/2013	3:00:00	20.33
6/2/2013	3:10:00	20.29
6/2/2013	3:20:00	20.26
6/2/2013	3:30:00	20.21
6/2/2013	3:40:00	20.17
6/2/2013	3:50:00	20.14
6/2/2013	4:00:00	20.08
6/2/2013	4:10:00	20.05
6/2/2013	4:20:00	20.01
6/2/2013	4:30:00	19.97
6/2/2013	4:40:00	19.93
6/2/2013	4:50:00	19.88
6/2/2013	5:00:00	19.84
6/2/2013	5:10:00	19.80
6/2/2013	5:20:00	19.75
6/2/2013	5:30:00	19.72
6/2/2013	5:40:00	19.67
6/2/2013	5:50:00	19.64
6/2/2013	6:00:00	19.60
6/2/2013	6:10:00	19.56
6/2/2013	6:20:00	19.53
6/2/2013	6:30:00	19.52
6/2/2013	6:40:00	19.50
6/2/2013	6:50:00	19.49

6/2/2013	7:00:00	19.48
6/2/2013	7:10:00	19.47
6/2/2013	7:20:00	19.48
6/2/2013	7:30:00	19.47
6/2/2013	7:40:00	19.47
6/2/2013	7:50:00	19.46
6/2/2013	8:00:00	19.48
6/2/2013	8:10:00	19.50
6/2/2013	8:20:00	19.51
6/2/2013	8:30:00	19.53
6/2/2013	8:40:00	19.53
6/2/2013	8:50:00	19.54
6/2/2013	9:00:00	19.55
6/2/2013	9:10:00	19.59
6/2/2013	9:20:00	19.61
6/2/2013	9:30:00	19.65
6/2/2013	9:40:00	19.73
6/2/2013	9:50:00	19.80
6/2/2013	10:00:00	19.94
6/2/2013	10:10:00	20.03
6/2/2013	10:20:00	20.10
6/2/2013	10:30:00	20.18
6/2/2013	10:40:00	20.24
6/2/2013	10:50:00	20.32
6/2/2013	11:00:00	20.40
6/2/2013	11:10:00	20.46
6/2/2013	11:20:00	20.52
6/2/2013	11:30:00	20.55
6/2/2013	11:40:00	20.64
6/2/2013	11:50:00	20.69
6/2/2013	12:00:00	20.80
6/2/2013	12:10:00	20.91
6/2/2013	12:20:00	20.95
6/2/2013	12:30:00	21.15
6/2/2013	12:40:00	21.30
6/2/2013	12:50:00	21.64
6/2/2013	13:00:00	21.83
6/2/2013	13:10:00	22.13
6/2/2013	13:20:00	22.42
6/2/2013	13:30:00	22.46
6/2/2013	13:40:00	22.58
6/2/2013	13:50:00	22.69
6/2/2013	14:00:00	22.82
6/2/2013	14:10:00	22.90
6/2/2013	14:20:00	23.03
6/2/2013	14:30:00	23.18
6/2/2013	14:40:00	23.28

6/2/2013	14:50:00	23.44
6/2/2013	15:00:00	23.52
6/2/2013	15:10:00	23.61
6/2/2013	15:20:00	23.65
6/2/2013	15:30:00	23.69
6/2/2013	15:40:00	23.76
6/2/2013	15:50:00	23.80
6/2/2013	16:00:00	23.82
6/2/2013	16:10:00	23.84
6/2/2013	16:20:00	23.83
6/2/2013	16:30:00	23.83
6/2/2013	16:40:00	23.78
6/2/2013	16:50:00	23.70
6/2/2013	17:00:00	23.66
6/2/2013	17:10:00	23.64
6/2/2013	17:20:00	23.56
6/2/2013	17:30:00	23.54
6/2/2013	17:40:00	23.48
6/2/2013	17:50:00	23.42
6/2/2013	18:00:00	23.36
6/2/2013	18:10:00	23.28
6/2/2013	18:20:00	23.20
6/2/2013	18:30:00	23.13
6/2/2013	18:40:00	23.05
6/2/2013	18:50:00	22.99
6/2/2013	19:00:00	22.92
6/2/2013	19:10:00	22.82
6/2/2013	19:20:00	22.73
6/2/2013	19:30:00	22.66
6/2/2013	19:40:00	22.58
6/2/2013	19:50:00	22.49
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6/6/2013	9:10:00	18.02
6/6/2013	9:20:00	18.05
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6/6/2013	19:20:00	19.06
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6/6/2013	23:40:00	18.14
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6/7/2013	0:10:00	17.96
6/7/2013	0:20:00	18.04
6/7/2013	0:30:00	18.02
6/7/2013	0:40:00	17.92
6/7/2013	0:50:00	17.96
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6/7/2013	1:50:00	17.82
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6/7/2013	11:50:00	18.79
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6/7/2013	16:40:00	18.13
6/7/2013	16:50:00	18.26
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6/7/2013	17:30:00	18.28
6/7/2013	17:40:00	18.29
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6/7/2013	18:40:00	18.78
6/7/2013	18:50:00	18.87
6/7/2013	19:00:00	19.00
6/7/2013	19:10:00	19.12
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6/7/2013	19:30:00	19.35
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6/7/2013	22:40:00	19.93
6/7/2013	22:50:00	19.79
6/7/2013	23:00:00	20.07
6/7/2013	23:10:00	20.19
6/7/2013	23:20:00	20.10
6/7/2013	23:30:00	20.16
6/7/2013	23:40:00	20.15
6/7/2013	23:50:00	20.16
6/8/2013	0:00:00	20.07
6/8/2013	0:10:00	20.10
6/8/2013	0:20:00	20.23
6/8/2013	0:30:00	20.30
6/8/2013	0:40:00	20.21
6/8/2013	0:50:00	20.09
6/8/2013	1:00:00	20.26
6/8/2013	1:10:00	20.42
6/8/2013	1:20:00	20.41
6/8/2013	1:30:00	20.53
6/8/2013	1:40:00	20.54
6/8/2013	1:50:00	20.49
6/8/2013	2:00:00	20.25
6/8/2013	2:10:00	20.56
6/8/2013	2:20:00	20.41
6/8/2013	2:30:00	20.41
6/8/2013	2:40:00	20.20
6/8/2013	2:50:00	20.45
6/8/2013	3:00:00	20.41
6/8/2013	3:10:00	20.31
6/8/2013	3:20:00	20.07
6/8/2013	3:30:00	20.26
6/8/2013	3:40:00	20.16
6/8/2013	3:50:00	20.44

Sang Run Backup Temperature Data

		Temp, °C
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6/8/2013	0:25:00	17.08
6/8/2013	0:35:00	17.06
6/8/2013	0:45:00	17.06
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6/8/2013	3:25:00	16.77
6/8/2013	3:35:00	16.75
6/8/2013	3:45:00	16.73
6/8/2013	3:55:00	16.70

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6/8/2013	4:30:00	20.51	6/8/2013	4:35:00	16.61
6/8/2013	4:40:00	20.29	6/8/2013	4:45:00	16.58
6/8/2013	4:50:00	20.19	6/8/2013	4:55:00	16.56
6/8/2013	5:00:00	20.15	6/8/2013	5:05:00	16.51
6/8/2013	5:10:00	20.13	6/8/2013	5:15:00	16.49
6/8/2013	5:20:00	20.15	6/8/2013	5:25:00	16.46
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6/8/2013	5:50:00	20.02	6/8/2013	5:55:00	16.39
6/8/2013	6:00:00	19.77	6/8/2013	6:05:00	16.37
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6/8/2013	6:40:00	20.22	6/8/2013	6:45:00	16.30
6/8/2013	6:50:00	20.67	6/8/2013	6:55:00	16.27
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6/8/2013	7:20:00	20.97	6/8/2013	7:25:00	16.23
6/8/2013	7:30:00	21.02	6/8/2013	7:35:00	16.23
6/8/2013	7:40:00	20.93	6/8/2013	7:45:00	16.20
6/8/2013	7:50:00	20.90	6/8/2013	7:55:00	16.18
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6/8/2013	8:10:00	20.93	6/8/2013	8:15:00	16.18
6/8/2013	8:20:00	20.93	6/8/2013	8:25:00	16.15
6/8/2013	8:30:00	21.04	6/8/2013	8:35:00	16.13
6/8/2013	8:40:00	20.94	6/8/2013	8:45:00	16.13
6/8/2013	8:50:00	21.12	6/8/2013	8:55:00	16.13
6/8/2013	9:00:00	21.02	6/8/2013	9:05:00	16.13
6/8/2013	9:10:00	21.06	6/8/2013	9:15:00	16.13
6/8/2013	9:20:00	21.11	6/8/2013	9:25:00	16.15
6/8/2013	9:30:00	21.29	6/8/2013	9:35:00	16.18
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6/8/2013	9:50:00	21.08	6/8/2013	9:55:00	16.23
6/8/2013	10:00:00	21.28	6/8/2013	10:05:00	16.23
6/8/2013	10:10:00	21.25	6/8/2013	10:15:00	16.25
6/8/2013	10:20:00	21.29	6/8/2013	10:25:00	16.32
6/8/2013	10:30:00	21.46	6/8/2013	10:35:00	16.37
6/8/2013	10:40:00	21.14	6/8/2013	10:45:00	16.44
6/8/2013	10:50:00	21.32	6/8/2013	10:55:00	16.53
6/8/2013	11:00:00	21.69	6/8/2013	11:05:00	16.61
6/8/2013	11:10:00	21.80	6/8/2013	11:15:00	16.70
6/8/2013	11:20:00	21.58	6/8/2013	11:25:00	16.80
6/8/2013	11:30:00	21.81	6/8/2013	11:35:00	16.89
6/8/2013	11:40:00	22.02	6/8/2013	11:45:00	16.96

6/8/2013	11:50:00	22.39	6/8/2013	11:55:00	17.06
6/8/2013	12:00:00	22.44	6/8/2013	12:05:00	17.18
6/8/2013	12:10:00	22.54	6/8/2013	12:15:00	17.32
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6/8/2013	12:30:00	22.81	6/8/2013	12:35:00	17.49
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6/8/2013	12:50:00	23.16	6/8/2013	12:55:00	18.01
6/8/2013	13:00:00	23.07	6/8/2013	13:05:00	18.25
6/8/2013	13:10:00	23.42	6/8/2013	13:15:00	18.46
6/8/2013	13:20:00	23.45	6/8/2013	13:25:00	18.63
6/8/2013	13:30:00	23.86	6/8/2013	13:35:00	18.89
6/8/2013	13:40:00	23.87	6/8/2013	13:45:00	19.20
6/8/2013	13:50:00	24.26	6/8/2013	13:55:00	19.32
6/8/2013	14:00:00	24.32	6/8/2013	14:05:00	19.56
6/8/2013	14:10:00	24.61	6/8/2013	14:15:00	19.84
6/8/2013	14:20:00	24.73	6/8/2013	14:25:00	19.84
6/8/2013	14:30:00	24.77	6/8/2013	14:35:00	19.79
6/8/2013	14:40:00	24.46	6/8/2013	14:45:00	19.91
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6/8/2013	15:00:00	24.93	6/8/2013	15:05:00	19.79
6/8/2013	15:10:00	24.90	6/8/2013	15:15:00	19.96
6/8/2013	15:20:00	24.88	6/8/2013	15:25:00	20.41
6/8/2013	15:30:00	25.23	6/8/2013	15:35:00	20.48
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6/8/2013	15:50:00	25.78	6/8/2013	15:55:00	20.79
6/8/2013	16:00:00	25.76	6/8/2013	16:05:00	21.01
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6/8/2013	16:20:00	25.90	6/8/2013	16:25:00	21.25
6/8/2013	16:30:00	26.54	6/8/2013	16:35:00	21.27
6/8/2013	16:40:00	26.24	6/8/2013	16:45:00	21.20
6/8/2013	16:50:00	26.14	6/8/2013	16:55:00	21.25
6/8/2013	17:00:00	26.39	6/8/2013	17:05:00	21.06
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6/8/2013	17:30:00	26.53	6/8/2013	17:35:00	21.41
6/8/2013	17:40:00	26.56	6/8/2013	17:45:00	21.34
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6/8/2013	18:00:00	26.53	6/8/2013	18:05:00	21.10
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6/8/2013	18:20:00	26.51	6/8/2013	18:25:00	21.13
6/8/2013	18:30:00	26.45	6/8/2013	18:35:00	21.08
6/8/2013	18:40:00	26.39	6/8/2013	18:45:00	20.98
6/8/2013	18:50:00	26.33	6/8/2013	18:55:00	20.91
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6/10/2013	5:40:00	28.13	6/10/2013	5:45:00	18.70
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6/10/2013	6:30:00	28.04	6/10/2013	6:35:00	18.60
6/10/2013	6:40:00	28.02	6/10/2013	6:45:00	18.58
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6/10/2013	10:00:00	3.47	6/10/2013	8:45:00	18.51
6/10/2013	10:10:00	26.07	6/10/2013	8:55:00	18.49
6/10/2013	10:20:00	32.87	6/10/2013	9:05:00	18.53
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6/10/2013	12:50:00	19.69	6/10/2013	10:35:00	18.99
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6/30/2013	10:20:00	17.69
6/30/2013	10:30:00	17.75
6/30/2013	10:40:00	17.82
6/30/2013	10:50:00	17.90

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Station Name

Sangrun

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8/28/2013	20:00:00	18.11
8/28/2013	20:10:00	18.06
8/28/2013	20:20:00	18.04
8/28/2013	20:30:00	18.02
8/28/2013	20:40:00	18.01
8/28/2013	20:50:00	17.99
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8/28/2013	21:30:00	17.99
8/28/2013	21:40:00	17.93
8/28/2013	21:50:00	17.91
8/28/2013	22:00:00	17.92
8/28/2013	22:10:00	17.91
8/28/2013	22:20:00	17.91
8/28/2013	22:30:00	17.92
8/28/2013	22:40:00	17.93
8/28/2013	22:50:00	17.93
8/28/2013	23:00:00	17.94
8/28/2013	23:10:00	17.94
8/28/2013	23:20:00	17.95
8/28/2013	23:30:00	17.96
8/28/2013	23:40:00	17.96
8/28/2013	23:50:00	17.96
8/29/2013	0:00:00	17.98
8/29/2013	0:10:00	17.99
8/29/2013	0:20:00	18.02
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8/29/2013	0:40:00	18.06
8/29/2013	0:50:00	18.08
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8/29/2013	1:40:00	18.10
8/29/2013	1:50:00	18.11
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8/29/2013	2:10:00	18.10
8/29/2013	2:20:00	18.10
8/29/2013	2:30:00	18.10
8/29/2013	2:40:00	18.11
8/29/2013	2:50:00	18.11
8/29/2013	3:00:00	18.12
8/29/2013	3:10:00	18.12
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8/29/2013	5:30:00	18.16
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8/29/2013	5:50:00	18.15
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8/29/2013	7:50:00	18.19
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8/29/2013	8:40:00	18.21
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8/29/2013	10:30:00	18.35
8/29/2013	10:40:00	18.35
8/29/2013	10:50:00	18.40
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8/29/2013	15:20:00	19.01
8/29/2013	15:30:00	18.99
8/29/2013	15:40:00	19.00
8/29/2013	15:50:00	19.04
8/29/2013	16:00:00	19.04
8/29/2013	16:10:00	19.05
8/29/2013	16:20:00	19.05
8/29/2013	16:30:00	19.04
8/29/2013	16:40:00	19.01
8/29/2013	16:50:00	19.01

8/29/2013	17:00:00	19.05
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8/29/2013	17:20:00	19.06
8/29/2013	17:30:00	19.02
8/29/2013	17:40:00	18.99
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8/29/2013	18:20:00	18.93
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8/29/2013	22:40:00	18.52
8/29/2013	22:50:00	18.51
8/29/2013	23:00:00	18.50
8/29/2013	23:10:00	18.49
8/29/2013	23:20:00	18.48
8/29/2013	23:30:00	18.47
8/29/2013	23:40:00	18.46
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8/30/2013	0:10:00	18.42
8/30/2013	0:20:00	18.41
8/30/2013	0:30:00	18.40
8/30/2013	0:40:00	18.39

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8/30/2013	1:20:00	18.35
8/30/2013	1:30:00	18.35
8/30/2013	1:40:00	18.34
8/30/2013	1:50:00	18.33
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8/30/2013	5:40:00	18.22
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8/30/2013	6:40:00	18.17
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8/30/2013	8:00:00	18.13
8/30/2013	8:10:00	18.13
8/30/2013	8:20:00	18.13
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8/30/2013	9:40:00	18.17
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8/30/2013	10:10:00	18.22
8/30/2013	10:20:00	18.25
8/30/2013	10:30:00	18.27
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8/30/2013	14:10:00	19.30
8/30/2013	14:20:00	19.35
8/30/2013	14:30:00	19.46
8/30/2013	14:40:00	19.51
8/30/2013	14:50:00	19.50
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8/30/2013	15:20:00	19.58
8/30/2013	15:30:00	19.61
8/30/2013	15:40:00	19.26
8/30/2013	15:50:00	19.34
8/30/2013	16:00:00	19.39
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8/30/2013	16:20:00	19.45

8/30/2013	16:30:00	19.46
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8/30/2013	17:10:00	19.36
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8/30/2013	18:20:00	19.11
8/30/2013	18:30:00	19.05
8/30/2013	18:40:00	19.00
8/30/2013	18:50:00	18.95
8/30/2013	19:00:00	18.91
8/30/2013	19:10:00	18.88
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8/30/2013	21:10:00	18.56
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8/30/2013	21:30:00	18.54
8/30/2013	21:40:00	18.54
8/30/2013	21:50:00	18.54
8/30/2013	22:00:00	18.53
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8/30/2013	22:20:00	18.51
8/30/2013	22:30:00	18.51
8/30/2013	22:40:00	18.50
8/30/2013	22:50:00	18.50
8/30/2013	23:00:00	18.50
8/30/2013	23:10:00	18.50
8/30/2013	23:20:00	18.50
8/30/2013	23:30:00	18.50
8/30/2013	23:40:00	18.49
8/30/2013	23:50:00	18.49
8/31/2013	0:00:00	18.48
8/31/2013	0:10:00	18.47

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8/31/2013	0:30:00	18.45
8/31/2013	0:40:00	18.44
8/31/2013	0:50:00	18.42
8/31/2013	1:00:00	18.41
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8/31/2013	2:40:00	18.24
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8/31/2013	3:10:00	18.18
8/31/2013	3:20:00	18.16
8/31/2013	3:30:00	18.14
8/31/2013	3:40:00	18.12
8/31/2013	3:50:00	18.10
8/31/2013	4:00:00	18.08
8/31/2013	4:10:00	18.05
8/31/2013	4:20:00	18.03
8/31/2013	4:30:00	18.02
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8/31/2013	7:30:00	17.70
8/31/2013	7:40:00	17.69
8/31/2013	7:50:00	17.69
8/31/2013	8:00:00	17.69

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8/31/2013	10:00:00	17.96
8/31/2013	10:10:00	17.99
8/31/2013	10:20:00	18.00
8/31/2013	10:30:00	18.01
8/31/2013	10:40:00	18.05
8/31/2013	10:50:00	18.13
8/31/2013	11:00:00	18.21
8/31/2013	11:10:00	18.30
8/31/2013	11:20:00	18.37
8/31/2013	11:30:00	18.47
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8/31/2013	12:50:00	18.22
8/31/2013	13:00:00	17.73
8/31/2013	13:10:00	18.02
8/31/2013	13:20:00	18.31
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8/31/2013	13:40:00	18.55
8/31/2013	13:50:00	18.55
8/31/2013	14:00:00	18.46
8/31/2013	14:10:00	18.42
8/31/2013	14:20:00	18.41
8/31/2013	14:30:00	18.47
8/31/2013	14:40:00	18.52
8/31/2013	14:50:00	18.55
8/31/2013	15:00:00	18.63
8/31/2013	15:10:00	18.70
8/31/2013	15:20:00	18.78
8/31/2013	15:30:00	18.88
8/31/2013	15:40:00	18.96
8/31/2013	15:50:00	19.03

8/31/2013	16:00:00	19.10
8/31/2013	16:10:00	19.18
8/31/2013	16:20:00	19.19
8/31/2013	16:30:00	19.19
8/31/2013	16:40:00	19.12
8/31/2013	16:50:00	18.89
8/31/2013	17:00:00	18.86
8/31/2013	17:10:00	19.03
8/31/2013	17:20:00	19.10
8/31/2013	17:30:00	19.10
8/31/2013	17:40:00	19.07
8/31/2013	17:50:00	19.05
8/31/2013	18:00:00	19.02
8/31/2013	18:10:00	18.96
8/31/2013	18:20:00	18.92
8/31/2013	18:30:00	18.88
8/31/2013	18:40:00	18.83
8/31/2013	18:50:00	18.78
8/31/2013	19:00:00	18.73
8/31/2013	19:10:00	18.67
8/31/2013	19:20:00	18.62
8/31/2013	19:30:00	18.60
8/31/2013	19:40:00	18.59
8/31/2013	19:50:00	18.58
8/31/2013	20:00:00	18.56
8/31/2013	20:10:00	18.55
8/31/2013	20:20:00	18.54
8/31/2013	20:30:00	18.53
8/31/2013	20:40:00	18.54
8/31/2013	20:50:00	18.54
8/31/2013	21:00:00	18.54
8/31/2013	21:10:00	18.53
8/31/2013	21:20:00	18.52
8/31/2013	21:30:00	18.52
8/31/2013	21:40:00	18.51
8/31/2013	21:50:00	18.50
8/31/2013	22:00:00	18.49
8/31/2013	22:10:00	18.48
8/31/2013	22:20:00	18.54
8/31/2013	22:30:00	18.66
8/31/2013	22:40:00	18.75
8/31/2013	22:50:00	18.82
8/31/2013	23:00:00	18.86
8/31/2013	23:10:00	18.90
8/31/2013	23:20:00	18.93
8/31/2013	23:30:00	18.95
8/31/2013	23:40:00	18.96

8/31/2013	23:50:00	18.97
9/1/2013	0:00:00	18.97

TEMPERATURE ENHANCEMENT PLAN
SANG RUN TEMPERATURE EXCURSIONS

Summary of Temperature Excursions
June 1, 2013 to June 30, 2013

Date	Duration	Max Temp (°C)	Cause	Remarks
June 8, 2013	7 hours 00 minutes	26.62	Suspected Failure of the Sang Run Temperature Monitor - Recorder	River flow this day was >150 cfs. The abnormally high temperatures recorded this day appear to be related to the impending failure of the temperature monitoring and recording device.
June 9, 2013	13 hour 10 minutes	28.53	Sang Run Temperature Monitor - Recorder Failure	The temperature protocol conducted on Sunday, June 9 called for a release from 12:30 - 14:30. This release did not appear to mitigate the temperature rise due to the failure of the Sang Run temperature monitoring and recording device that was erroneously indicating high temperatures.
June 10, 2013	12 hours 00 minutes	40.78	Sang Run Temperature Monitor - Recorder Failure	The temperature monitoring and recording device was replaced with a spare unit, and it went back into service by 12:00 noon. A whitewater release was also scheduled, and it ran from 11:00 - 14:00.
June 23, 2013	00 hours 10 minutes	25.01	Model Uncertainty	River flow > 150 cfs.
June 23, 2013	00 hours 30 minutes	25.08	Model Uncertainty	River flow > 150 cfs.
June 25, 2013	00 hours 10 minutes	25.20	Model Uncertainty	The protocol called for a release that was conducted from 12:30 - 14:30 on this day.

Summary of Temperature Excursions
July 1, 2013 to July 31, 2013

Date	Duration	Max Temp (°C)	Cause	Remarks
July 14, 2013	3 hours 40 minutes	25.86	Model Uncertainty	River flow > 150 cfs. A release was not scheduled or conduted.
July 18, 2013	2 hours 00 minutes	26.47	Model Uncertainty	The temperature protocol conducted on Thursday, July 18 called for a two hour release to commence at 12:30 PM. A realease using both units ran from 12:30 PM until 7:00 PM.

Summary of Temperature Excursions
August 1, 2013 to August 31, 2013

Date	Duration	Max Temp (°C)	Cause	Remarks
August 6, 2013	1 hours 00 minutes	25.67	Model Uncertainty	The Protocol indicated that a release was to be made not later than 15:30 for 1 hour. A release was conducted from 15:00 - 16:00 with both units running at the maximum cfs discharge.

TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

80 = CFS River Flow at Oakland

June 1, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.37 (23 to 26.4)	Check Again at 0900
0900	22.89 (23 to 25.9)	Check Again at 1100
1100		Release at 1230 for 2 Hours
1200		--
1400		--
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	18.80	River Temp Sang Run @700		
T9	19.10	River Temp Sang Run @900		
T11	20.70	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	80.00	River Flow at Oakland		

SS R. McKenna 8/01/13

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6/1

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

70 = CFS River Flow at Oakland

June 2, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.50 (23 to 26.4)	Check Again at 0900
0900	21.62 (23 to 25.9)	Check Again at 1100
1100	23.05 (23 to 25.4)	Check Again at 1200
1200	23.81 (23 to 25.3)	Check Again at 1400
1400	23.63 (23 to 25.2)	Check Again at 1500
1500	24.13	Check Again Tomorrow at 0700

Tair °C	21.11	Air Temp, Elkins WV - Degree C	70	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	19.50	River Temp Sang Run @700		
T9	19.50	River Temp Sang Run @900		
T11	20.40	River Temp Sang Run @1100		
T12	21.70	River Temp Sang Run @1200		
T14	22.80	River Temp Sang Run @1400		
T15	23.50	River Temp Sang Run @1500		
Q	70.00	River Flow at Oakland		

Dale C
 ss R. metema 6/02/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

66 = CFS River Flow at Oakland

June 3, 2013

Simulate a Ra

Print Info for file

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

Tair °C	20.00	Air Temp, Elkins WV - Degree C	68	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	66.00	River Flow at Oakland		

* WWR scheduled for 1100-1400 Temperature plan not required *RFJ*
 SS R. McKenna 6/03/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

62 = CFS River Flow at Oakland

June 4, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.07 (23 to 26.4)	Check Again at 0900
0900	21.93 (23 to 25.9)	Check Again at 1100
1100	22.51 (23 to 25.4)	Check Again at 1200
1200	22.66 (23 to 25.3)	Check Again at 1400
1400	24.41 (23 to 25.2)	Check Again at 1500
1500	24.62	Check Again Tomorrow at 0700

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	16.00	River Temp Sang Run @700		
T9	16.10	River Temp Sang Run @900		
T11	17.30	River Temp Sang Run @1100		
T12	18.40	River Temp Sang Run @1200		
T14	21.70	River Temp Sang Run @1400		
T15	22.90	River Temp Sang Run @1500		
Q	62.00	River Flow at Oakland		

[Signature]
6/4/13
SS R. McKenna 6/04/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

52 = CFS River Flow at Oakland

June 5, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.62 (23 to 26.4)	Check Again at 0900
0900	21.97 (23 to 25.9)	Check Again at 1100
1100	21.92 (23 to 25.4)	Check Again at 1200
1200	22.77 (23 to 25.3)	Check Again at 1400
1400	24.13 (23 to 25.2)	Check Again at 1500
1500	24.72	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	15.50	River Temp Sang Run @700		
T9	16.20	River Temp Sang Run @900		
T11	17.10	River Temp Sang Run @1100		
T12	18.70	River Temp Sang Run @1200		
T14	21.50	River Temp Sang Run @1400		
T15	23.00	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

[Handwritten signature]
 SS Ruckman 6/5/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

48 = CFS River Flow at Oakland

June 6, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.05 (23 to 26.4)	Check Again at 0900
0900	22.01 (23 to 25.9)	Check Again at 1100
1100	21.50 (23 to 25.4)	Check Again at 1200
1200	21.11 (23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.00	River Temp Sang Run @700		
T9	18.00	River Temp Sang Run @900		
T11	18.30	River Temp Sang Run @1100		
T12	18.40	River Temp Sang Run @1200		
T14	18.60	River Temp Sang Run @1400		
T15	18.60	River Temp Sang Run @1500		
Q	48.00	River Flow at Oakland		

[Handwritten Signature]
3/6/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

UA = CFS River Flow at Oakland

June 7, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Need Flow Estimate to Proceed *
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

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

* wwr scheduled for 11:00 - 14:00 Temperature plan not required *RFJ*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

153 = CFS River Flow at Oakland

June 8, 2013

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	13.89	Air Temp, Elkins WV - Degree C	57	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	OVRCAST	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	153.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

85 = CFS River Flow at Oakland

June 9, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.32 (23 to 26.4)	Check Again at 0900
0900	25.07 (23 to 25.9)	Check Again at 1100
1100		Release at <u>1230</u> for 2 Hours. River Temp > 25
1200		--
1400		--
1500		--

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	23.80	River Temp Sang Run @700		
T9	24.10	River Temp Sang Run @900		
T11	25.20	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		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

62 = CFS River Flow at Oakland

June 10, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.97 (23 to 26.4)	Release at 1100 for 2 Hours. River Temp > 25
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	17.78	Air Temp, Elkins WV - Degree C	64	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	28.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	62.00	River Flow at Oakland		

WWR 11-2 PM

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

88 = CFS River Flow at Oakland

June 11, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.4 (23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	17.78	Air Temp, Elkins WV - Degree C	64	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	17.90	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	88.00	River Flow at Oakland		

Handwritten signatures: Dan C. R. and J. B. L.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

73 = CFS River Flow at Oakland

June 12, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.46 (23 to 26.4)	Check Again at 0900
0900	22.25 (23 to 25.9)	Check Again at 1100
1100	23.76 (23 to 25.4)	Check Again at 1200
1200	23.75 (23 to 25.3)	Check Again at 1400
1400	23.85 (23 to 25.2)	Check Again at 1500
1500	23.95	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	TSTRMS	Cloud Cover, Elkins WV
T7	17.30	River Temp Sang Run @700		
T9	17.50	River Temp Sang Run @900		
T11	18.60	River Temp Sang Run @1100		
T12	19.50	River Temp Sang Run @1200		
T14	21.40	River Temp Sang Run @1400		
T15	22.40	River Temp Sang Run @1500		
Q	73.00	River Flow at Oakland		

RS
 Bob Sullivan 6/12/13
Tracy 6/12/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

70 = CFS River Flow at Oakland

June 13, 2013

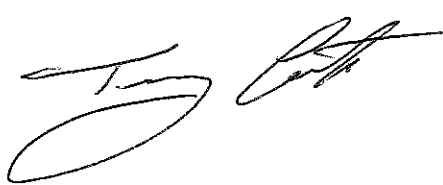
Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.83 (23 to 26.4)	Check Again at 0900
0900	21.18 (23 to 25.9)	Check Again at 1100
1100	21.91 (23 to 25.4)	Check Again at 1200
1200	21.78 (23 to 25.3)	Check Again at 1400
1400	20.62 (23 to 25.2)	Check Again at 1500
1500	20.21	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	18.80	River Temp Sang Run @700		
T9	18.40	River Temp Sang Run @900		
T11	18.50	River Temp Sang Run @1100		
T12	18.80	River Temp Sang Run @1200		
T14	19.00	River Temp Sang Run @1400		
T15	19.10	River Temp Sang Run @1500		
Q	70.00	River Flow at Oakland		

 6-13-2013
Bob Sullivan

 6-13-13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1800 = CFS River Flow at Oakland

June 14, 2013

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	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	16.20	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	1800.00	River Flow at Oakland		

* Whitewater scheduled for ~~10:00 to 13:00~~ 11:00 to 14:00 will not be run due to flows exceeding 1300 cfs @ Oakland

Tony East 6/14/13
Rlf 6/14/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

738 = CFS River Flow at Oakland

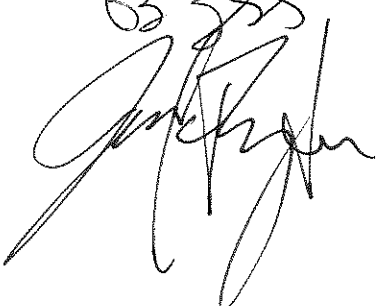
June 15, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.86 (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	77	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	13.90	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	738.00	River Flow at Oakland		

B3388


YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

404 = CFS River Flow at Oakland

June 16, 2013

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 <i>K</i>
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	16.50	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	404.00	River Flow at Oakland		

[Handwritten Signature]
[Handwritten Signature] 6/16/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

272 = CFS River Flow at Oakland

June 17, 2013

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	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	272.00	River Flow at Oakland		

Kdy 6/17/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

200 = CFS River Flow at Oakland

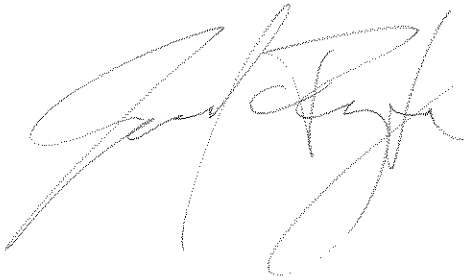
June 18, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.07 (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	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	18.20	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	200.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

532 = CFS River Flow at Oakland

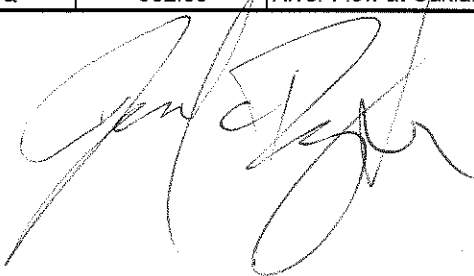
June 19, 2013

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)	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	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.50	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	532.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

373 = CFS River Flow at Oakland

June 20, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.20 (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	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	16.20	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		

[Handwritten Signature]
 SS R. McKee 6/20/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

241 = CFS River Flow at Oakland

June 21, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.55 (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	28.89	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	17.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	241.00	River Flow at Oakland		

[Handwritten Signature] 6/21/13
 SS R. mehan 6/21/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

UA = CFS River Flow at Oakland

June 22, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Need Flow Estimate to Proceed
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

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

whitewater release scheduled. No Temp Plan Required by license

Rucker
6/22/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

151 = CFS River Flow at Oakland

June 23, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.70 (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	27.78	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	19.30	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		

[Signature] 6/23/13

[Signature]
6/23/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

124 = CFS River Flow at Oakland

June 24, 2013

Simulate a Ra

Print Info for file

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

Tair °C	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	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	124.00	River Flow at Oakland		

TEMPERATURE PROTOCOL NOT REQUIRED DUE TO WHITEWATER RELEASE.

TMB
 SS R. Melton 6/24/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

121 = CFS River Flow at Oakland

June 25, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.87 (23 to 26.4)	Check Again at 0900
0900	22.35 (23 to 25.9)	Check Again at 1100
1100		Release at 1230 for 2 Hours
1200		--
1400		--
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	PTCLDY	Cloud Cover, Elkins WV
T7	19.70	River Temp Sang Run @700		
T9	20.00	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	121.00	River Flow at Oakland		

Klf 6/25/13

[Signature] 6/25/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

103 = CFS River Flow at Oakland

June 26, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.89 (23 to 26.4)	Check Again at 0900
0900	22.70 (23 to 25.9)	Check Again at 1100
1100	25.82 (23 to 25.4)	Release at 1230 for 2 Hours
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	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.70	River Temp Sang Run @700		
T9	20.80	River Temp Sang Run @900		
T11	21.70	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	103.00	River Flow at Oakland		

[Handwritten signature] 6/26/13
[Handwritten signature] 6/26/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

95 = CFS River Flow at Oakland

June 27, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.14 (23 to 26.4)	Check Again at 0900
0900	20.93 (23 to 25.9)	Check Again at 1100
1100	22.59 (23 to 25.4)	Check Again at 1200
1200	22.30 (23 to 25.3)	Check Again at 1400
1400	21.51 (23 to 25.2)	Check Again at 1500
1500	21.04	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	19.70	River Temp Sang Run @700		
T9	19.60	River Temp Sang Run @900		
T11	19.70	River Temp Sang Run @1100		
T12	19.80	River Temp Sang Run @1200		
T14	20.10	River Temp Sang Run @1400		
T15	20.10	River Temp Sang Run @1500		
Q	95.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

437 = CFS River Flow at Oakland

June 28, 2013

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	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	18.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	437.00	River Flow at Oakland		

RD 6-28-13

WLF 6/28/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1430 = CFS River Flow at Oakland

June 29, 2013

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	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.50	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	1430.00	River Flow at Oakland		

NS *SSQ. McKenna 6/29/13*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

557 = CFS River Flow at Oakland


June 30, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.49 (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	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.30	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	557.00	River Flow at Oakland		

 6/30/13
 SS R. Mc... 6/30/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

357 = CFS River Flow at Oakland

July 1, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.07 (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	TSTRMS	Cloud Cover, Elkins WV
T7	18.50	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	357.00	River Flow at Oakland		

[Handwritten signature] 7/1/13

R. McKenna 7/01/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

388 = CFS River Flow at Oakland


July 2, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.86 (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	100	Cloud Cover Factor, Elkins WV	TSTRMS	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	388.00	River Flow at Oakland		

7/2/13

 R. Nelson 7/02/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

260 = CFS River Flow at Oakland

July 3, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.14 (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	TSTRMS	Cloud Cover, Elkins WV
T7	18.70	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	260.00	River Flow at Oakland		

[Handwritten Signature]
 R. McKenna 7/03/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

207 = CFS River Flow at Oakland

July 4, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.94 (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	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	19.50	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	207.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

207 = CFS River Flow at Oakland

July 5, 2013

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	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	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	207.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

181 = CFS River Flow at Oakland

July 6, 2013

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	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	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	181.00	River Flow at Oakland		

Handwritten signature and initials, possibly 'B. J. ...' and 'S. ...'.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

148 = CFS River Flow at Oakland


July 7, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.45 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Check Again at 1100
1100	24.30 (23 to 25.4)	Check Again at 1200
1200	24.46 (23 to 25.3)	Check Again at 1400
1400	23.36 (23 to 25.2)	Check Again at 1500
1500	22.56	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	21.20	River Temp Sang Run @700		
T9	21.40	River Temp Sang Run @900		
T11	22.00	River Temp Sang Run @1100		
T12	22.60	River Temp Sang Run @1200		
T14	22.70	River Temp Sang Run @1400		
T15	22.20	River Temp Sang Run @1500		
Q	148.00	River Flow at Oakland		

03388

 7/7/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

215 = CFS River Flow at Oakland

July 8, 2013

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	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	215.00	River Flow at Oakland		

[Handwritten Signature] 7/8/13

[Handwritten Signature] 7/8/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

142 = CFS River Flow at Oakland

July 9, 2013

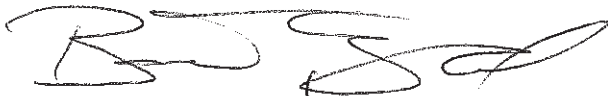
Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.64 (23 to 26.4)	Check Again at 0900
0900	21.07 (23 to 25.9)	Check Again at 1100
1100	24.82 (23 to 25.4)	Check Again at 1200
1200	24.26 (23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Input 1400 SANG RUN Temp
1500		Input 1400 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.60	River Temp Sang Run @700		
T9	20.70	River Temp Sang Run @900		
T11	21.30	River Temp Sang Run @1100		
T12	21.40	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	142.00	River Flow at Oakland		

No Temp Run. Units online



R. McKenna 7/09/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

211 = CFS River Flow at Oakland

July 10, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.87 (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	27.78	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	19.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	211.00	River Flow at Oakland		

R. McKenna
7/10/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

184 = CFS River Flow at Oakland

July 11, 2013

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	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	184.00	River Flow at Oakland		

R. McKenna 7/11/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

159 = CFS River Flow at Oakland

July 12, 2013

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		

Handwritten signature

Tair °C	15.56	Air Temp, Elkins WV - Degree C	60	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	159.00	River Flow at Oakland		

R. McKenna 7/12/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

237 = CFS River Flow at Oakland

July 13, 2013

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		

SLA

Tair °C	18.33	Air Temp, Elkins WV - Degree C	65	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	237.00	River Flow at Oakland		

Tracy Cant 7/13/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

175 = CFS River Flow at Oakland

July 14, 2013

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		

SB

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	175.00	River Flow at Oakland		

Tracy Smith 7/14/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

142 = CFS River Flow at Oakland

July 15, 2013

Simulate a Ra

Print Info for file

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

Tair °C	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	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	142.00	River Flow at Oakland		

TEMP. PROTOCOL NOT REQUIRED DUE TO
WHITewater RELEASE.

Sam Blum
[Signature] 7/15/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

112 = CFS River Flow at Oakland

July 16, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.36 (23 to 26.4)	Check Again at 0900
0900	22.73 (23 to 25.9)	Check Again at 1100
1100		Release at 1230 for 2 Hours
1200		--
1400		--
1500		--

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	20.50	River Temp Sang Run @700		
T9	20.60	River Temp Sang Run @900		
T11	21.80	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		

DEEP CREEK GENERATED @ 19 MW STARTING 1030, RUNNING UNTIL 1400. AT 1400 DEEP CREEK GENERATED @ 15 MW ± 4 MW REGULATION.

Tom Bl
Ty Est 7/16/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

103 = CFS River Flow at Oakland

July 17, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.69 (23 to 26.4)	Check Again at 0900
0900	23.52 (23 to 25.9)	Check Again at 1100
1100		Release at 1230 for 2 Hours
1200		--
1400		--
1500		--

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
T7	21.50	River Temp Sang Run @700		
T9	21.60	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	103.00	River Flow at Oakland		

DEEP CREEK BEGAN GENERATING @ 1200 AND WILL CONTINUE UNTIL 1900.

Handwritten signature and date:
 [Signature] 7/17/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

88 = CFS River Flow at Oakland

July 18, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.28 (23 to 26.4)	Check Again at 0900
0900	24.43 (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	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.30	River Temp Sang Run @700		
T9	21.60	River Temp Sang Run @900		
T11	22.90	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		

DEEP CREEK BEGAN GENERATING AT 1230 FOR TEMPERATURE RELEASE AND WILL CONTINUE UNTIL 1900.

Tom B
Tom B 7/18/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

UA = CFS River Flow at Oakland

July 19, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Need Flow Estimate to Proceed *
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

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

* WWR schedule for 11:00 - 14:00

[Handwritten signature]
[Handwritten signature] 7/19/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

UA = CFS River Flow at Oakland

July 20, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Need Flow Estimate to Proceed <i>★</i>
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

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

★ WWR scheduled for 11:00 - 14:00

[Signature]
R. Nelson 7/20/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

68

= CFS River Flow at Oakland

July 21, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.21 (23 to 26.4)	Check Again at 0900
0900	24.50 (23 to 25.9)	Check Again at 1100
1100	24.32 (23 to 25.4)	Check Again at 1200
1200	24.72 (23 to 25.3)	Check Again at 1400
1400	23.75 (23 to 25.2)	Check Again at 1500
1500	24.30	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	RAIN	Cloud Cover, Elkins WV
T7	20.00	River Temp Sang Run @700		
T9	21.20	River Temp Sang Run @900		
T11	21.40	River Temp Sang Run @1100		
T12	22.20	River Temp Sang Run @1200		
T14	22.60	River Temp Sang Run @1400		
T15	23.50	River Temp Sang Run @1500		
Q	68.00	River Flow at Oakland		

[Handwritten Signature]
 R mekema 7/21/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

60 = CFS River Flow at Oakland

July 22, 2013

Simulate a Ra

Print Info for file

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

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	60.00	River Flow at Oakland		

R. McClan
7/22/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

641 = CFS River Flow at Oakland

July 23, 2013

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		

sto

Tair °C	20.56	Air Temp, Elkins WV - Degree C	69	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	OVRCAST	Cloud Cover, Elkins WV
T7	19.70	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	641.00	River Flow at Oakland		

Tom Cat 7/23/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

1100 = CFS River Flow at Oakland

July 24, 2013

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		

John H.

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	1100.00	River Flow at Oakland		

Tony Lutz 7/24/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

483 = CFS River Flow at Oakland

July 25, 2013

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		

Sto to

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	483.00	River Flow at Oakland		

Tony Cook 7/25/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra



284 = CFS River Flow at Oakland

July 26, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.99 (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	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	17.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	284.00	River Flow at Oakland		


 Bob Sullivan 7-26-2013
 7.26.13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

200 = CFS River Flow at Oakland

July 27, 2013

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	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.90	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	200.00	River Flow at Oakland		

- *RS*
Bob Sullivan

R. McKenna 7/27/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

181 = CFS River Flow at Oakland

July 28, 2013

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	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.30	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	181.00	River Flow at Oakland		

Bob Sullivan 7-28-13
Bob Sullivan
R. Sullivan 7/28/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

156 = CFS River Flow at Oakland

July 29, 2013

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	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	VARCLDY	Cloud Cover, Elkins WV
T7	16.70	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	156.00	River Flow at Oakland		

[Handwritten Signature] R. M. C. 7/29/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

115 = CFS River Flow at Oakland

July 30, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.14 (23 to 26.4)	Check Again at 0900
0900	20.43 (23 to 25.9)	Check Again at 1100
1100	23.04 (23 to 25.4)	Check Again at 1200
1200	23.43 (23 to 25.3)	Check Again at 1400
1400	22.41 (23 to 25.2)	Check Again at 1500
1500	23.17	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	16.70	River Temp Sang Run @700		
T9	16.80	River Temp Sang Run @900		
T11	17.90	River Temp Sang Run @1100		
T12	19.20	River Temp Sang Run @1200		
T14	20.50	River Temp Sang Run @1400		
T15	21.80	River Temp Sang Run @1500		
Q	115.00	River Flow at Oakland		

7/30/13

R. McKenna
7/30/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

98 = CFS River Flow at Oakland

July 31, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.17 (23 to 26.4)	Check Again at 0900
0900	18.88 (23 to 25.9)	Check Again at 1100
1100	23.04 (23 to 25.4)	Check Again at 1200
1200	22.63 (23 to 25.3)	Check Again at 1400
1400	22.20 (23 to 25.2)	Check Again at 1500
1500		Input 1500 SANG RUN Temp

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	17.20	River Temp Sang Run @700		
T9	17.20	River Temp Sang Run @900		
T11	18.60	River Temp Sang Run @1100		
T12	19.10	River Temp Sang Run @1200		
T14	20.30	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	98.00	River Flow at Oakland		

Commenced discretionary Generation @ 1400

[Signature]
[Signature] 7/31/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

90 = CFS River Flow at Oakland

August 1, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.95 (23 to 26.4)	Check Again at 0900
0900	20.85 (23 to 25.9)	Check Again at 1100
1100	22.25 (23 to 25.4)	Check Again at 1200
1200	21.74 (23 to 25.3)	Check Again at 1400
1400	22.13 (23 to 25.2)	Check Again at 1500
1500	22.21	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	18.10	River Temp Sang Run @700		
T9	18.10	River Temp Sang Run @900		
T11	18.60	River Temp Sang Run @1100		
T12	18.70	River Temp Sang Run @1200		
T14	20.20	River Temp Sang Run @1400		
T15	20.90	River Temp Sang Run @1500		
Q	90.00	River Flow at Oakland		

[Handwritten Signature] 8/1/13
[Handwritten Signature] 8/1/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

98 = CFS River Flow at Oakland

August 2, 2013

Simulate a Ra

Print Info for file

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

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	98.00	River Flow at Oakland		

WWR - 03/28/13
[Handwritten signature]

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

80 = CFS River Flow at Oakland

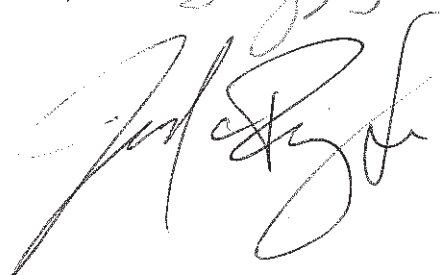
August 3, 2013

Simulate a Ra

Print Info for file

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

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	80.00	River Flow at Oakland		

WWR 82788


YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

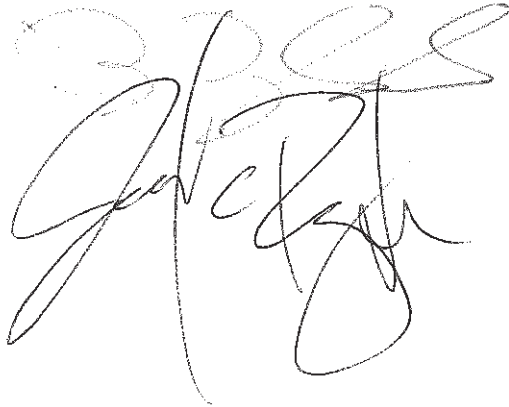
75 = CFS River Flow at Oakland

August 4, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.73 (23 to 26.4)	Check Again at 0900
0900	21.66 (23 to 25.9)	Check Again at 1100
1100	21.97 (23 to 25.4)	Check Again at 1200
1200	22.28 (23 to 25.3)	Check Again at 1400
1400	23.04 (23 to 25.2)	Check Again at 1500
1500	23.49	Check Again Tomorrow at 0700

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	17.60	River Temp Sang Run @700		
T9	17.60	River Temp Sang Run @900		
T11	18.00	River Temp Sang Run @1100		
T12	18.90	River Temp Sang Run @1200		
T14	21.00	River Temp Sang Run @1400		
T15	22.10	River Temp Sang Run @1500		
Q	75.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

66

= CFS River Flow at Oakland

August 5, 2013

Simulate a Ra

Print Info for file

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

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	66.00	River Flow at Oakland		

Not required due to WWR
[Signature]

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

54 = CFS River Flow at Oakland

August 6, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.12 (23 to 26.4)	Check Again at 0900
0900	22.68 (23 to 25.9)	Check Again at 1100
1100	23.98 (23 to 25.4)	Check Again at 1200
1200	24.00 (23 to 25.3)	Check Again at 1400
1400	24.73 (23 to 25.2)	Check Again at 1500
1500	25.00	Release ASAP - not later than 1530 for 1 hour

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.10	River Temp Sang Run @700		
T9	17.00	River Temp Sang Run @900		
T11	18.60	River Temp Sang Run @1100		
T12	19.70	River Temp Sang Run @1200		
T14	22.30	River Temp Sang Run @1400		
T15	24.00	River Temp Sang Run @1500		
Q	54.00	River Flow at Oakland		

BSJ
Tony Cant 8/6/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

48 = CFS River Flow at Oakland

August 7, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.33 (23 to 26.4)	Check Again at 0900
0900	23.29 (23 to 25.9)	Check Again at 1100
1100	24.02 (23 to 25.4)	Check Again at 1200
1200	24.02 (23 to 25.3)	Check Again at 1400
1400		Input 1400 SANG RUN Temp
1500		Input 1400 SANG RUN Temp

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	18.50	River Temp Sang Run @700		
T9	18.70	River Temp Sang Run @900		
T11	19.80	River Temp Sang Run @1100		
T12	20.60	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	48.00	River Flow at Oakland		

BE released for 3 hrs
Tom 8/7/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

62 = CFS River Flow at Oakland

August 8, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.66 (23 to 26.4)	#VALUE!
0900	23.74 (23 to 25.9)	#VALUE!
1100	24.02 (23 to 25.4)	#VALUE!
1200	24.15 (23 to 25.3)	#VALUE!
1400	 (23 to 25.2)	#VALUE!
1500		#VALUE!

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.10	River Temp Sang Run @700		
T9	19.30	River Temp Sang Run @900		
T11	19.90	River Temp Sang Run @1100		
T12	20.70	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	62.00	River Flow at Oakland		

Released @ 1400

[Handwritten Signature]
[Handwritten Signature] 8.8.13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

142 = CFS River Flow at Oakland

August 9, 2013

Print Info for file

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

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	142.00	River Flow at Oakland		

*NO TEMP RUN - WHITEWATER RELEASE-

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

570 = CFS River Flow at Oakland

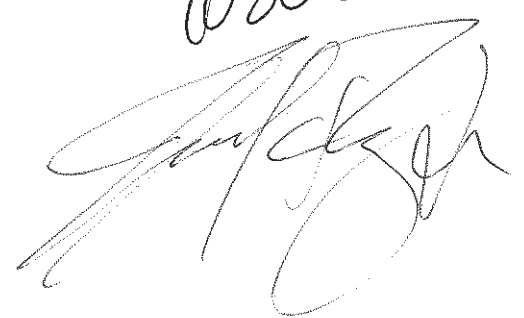
August 10, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.17 (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	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.70	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	570.00	River Flow at Oakland		

*Hoyes Run
1080 cfs*



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

272 = CFS River Flow at Oakland

August 11, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.32 (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	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.60	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	272.00	River Flow at Oakland		

[Handwritten Signature] 8/11/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

181 = CFS River Flow at Oakland

August 12, 2013

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	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	181.00	River Flow at Oakland		

WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

420 = CFS River Flow at Oakland

August 13, 2013

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	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	420.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

946 = CFS River Flow at Oakland

August 14, 2013

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	20.00	Air Temp, Elkins WV - Degree C	68	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	946.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

466

= CFS River Flow at Oakland

August 15, 2013

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	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	466.00	River Flow at Oakland		

R. Nelson 8/15/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

293 = CFS River Flow at Oakland

August 16, 2013

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	19.44	Air Temp, Elkins WV - Degree C	67	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	293.00	River Flow at Oakland		



DALE FURNSEY
 Rmctem 8/16/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

226 = CFS River Flow at Oakland

August 17, 2013

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	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	226.00	River Flow at Oakland		



Dale Kinnery
R. McKenna 8/17/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

187 = CFS River Flow at Oakland

August 18, 2013

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	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	187.00	River Flow at Oakland		

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 DSEE agency
 Ronkema 8/18/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

222 = CFS River Flow at Oakland

August 19, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.20 (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	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.00	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	222.00	River Flow at Oakland		

Huges
326 cfs

Ruck 8/19/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

200 = CFS River Flow at Oakland

August 20, 2013

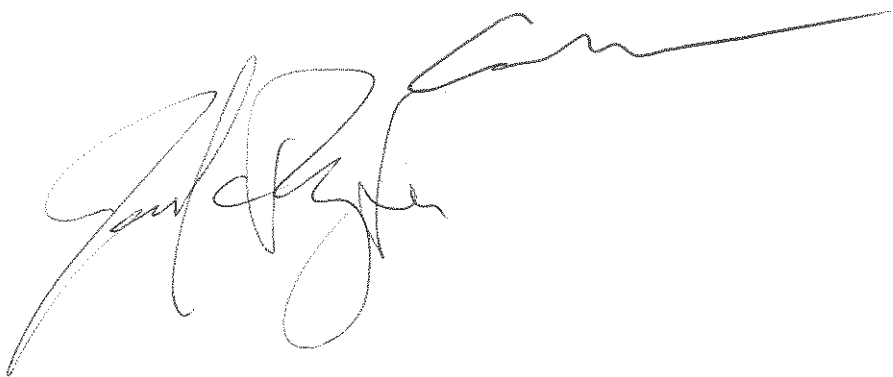
Simulate a Ra

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	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	200.00	River Flow at Oakland		

319 cfs - Hayes Run



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

151 = CFS River Flow at Oakland

August 21, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.01 (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	17.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	151.00	River Flow at Oakland		

Augus 23 2013
 [Signature] 8/21/13
 [Signature]

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

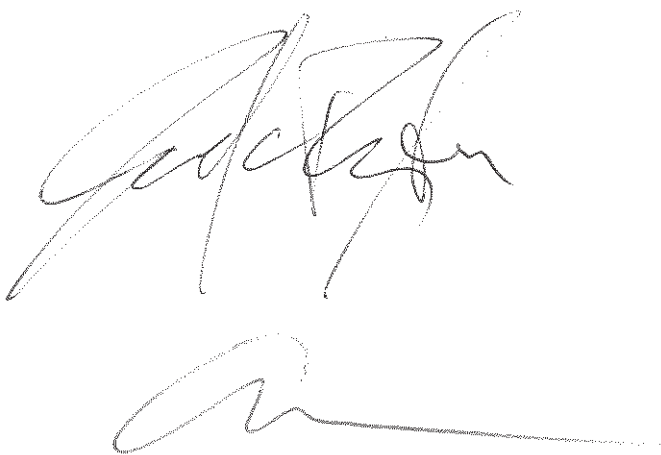
168 = CFS River Flow at Oakland

August 22, 2013

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	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	168.00	River Flow at Oakland		



Two handwritten signatures are present at the bottom of the page. The top signature is a large, stylized cursive signature, and the bottom signature is a smaller, more fluid cursive signature.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

156 = CFS River Flow at Oakland

August 23, 2013

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	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	156.00	River Flow at Oakland		

WWR

8/23/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

378 = CFS River Flow at Oakland

August 24, 2013

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	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	378.00	River Flow at Oakland		

WWR



R. McFadden 8/24/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

218 = CFS River Flow at Oakland

August 25, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.35 (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	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	218.00	River Flow at Oakland		

B. J. ...
R. McKenna 8/25/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

UA = CFS River Flow at Oakland

August 26, 2013

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Need Flow Estimate to Proceed
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	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	UA	River Flow at Oakland		

Whitewater release scheduled

[Signature]
[Signature] 8.26.13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

142 = CFS River Flow at Oakland

August 27, 2013

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.97 (23 to 26.4)	Check Again at 0900
0900	20.21 (23 to 25.9)	Check Again at 1100
1100	23.55 (23 to 25.4)	Check Again at 1200
1200	23.25 (23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Input 1400 SANG RUN Temp
1500		Input 1400 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.60	River Temp Sang Run @700		
T9	18.70	River Temp Sang Run @900		
T11	19.20	River Temp Sang Run @1100		
T12	19.60	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	142.00	River Flow at Oakland		

Discretionary Generation scheduled @ 1400

[Handwritten Signature]
[Handwritten Signature] 8.27.13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

857 = CFS River Flow at Oakland

August 28, 2013

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	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	857.00	River Flow at Oakland		

[Handwritten Signature] 8/28/13

[Handwritten Signature] 8.28.13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

3710 = CFS River Flow at Oakland

August 29, 2013

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 - <u>Flow Exceeds 150 CFS</u>
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	3710.00	River Flow at Oakland		

[Handwritten Signature]
 8/28/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

1380 = CFS River Flow at Oakland

August 30, 2013

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	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	1380.00	River Flow at Oakland		

[Handwritten signatures and date]
 8/30/13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

583 = CFS River Flow at Oakland

August 31, 2013

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	No Data	Air Temp, Elkins WV - Degree C	No Data	Air Temp, Elkins WV - Degree F
CCF	No Data	Cloud Cover Factor, Elkins WV	No Data	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	583.00	River Flow at Oakland		

APPENDIX C

**BYPASS FLOW OPERATION DATA TABLE AND
USGS PROVISIONAL WATER DISCHARGE DATA TABLE**

2013 Youghiogheny River Bypass Flow Provision				
Month	Day	Flow at Oakland Gage (cfs)	Bypass Flow Required (cfs)	% Valve Open
-	-	-	-	-

**USGS PROVISIONAL WATER DISCHARGE DATA (mean cfs)
FOR THE HOYES RUN GAGE (No. 03076100) FROM JANUARY 1, 2013 THROUGH DECEMBER 31, 2013²**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day												
1	546 ^A	2770 ^A	427 ^A	1920 ^A	248 ^A	190 ^A	582 ^A	157 ^A	670 ^A	155 ^P	172 ^P	333 ^P
2	524 ^A	1780 ^A	379 ^A	1580 ^A	217 ^A	124 ^A	644 ^A	242 ^A	584 ^A	154 ^P	115 ^P	555 ^P
3	481 ^A	1500 ^A	347 ^A	1060 ^A	285 ^A	202 ^A	480 ^A	225 ^A	484 ^A	68 ^P	97 ^P	540 ^P
4	300 ^A	818 ^A	314 ^A	776 ^A	271 ^A	114 ^A	410 ^A	134 ^A	390 ^A	145 ^P	184 ^P	269 ^P
5	277 ^A	552 ^A	294 ^A	662 ^A	177 ^A	103 ^A	379 ^A	206 ^A	338 ^A	142 ^P	175 ^P	248 ^P
6	260 ^A	477 ^A	562 ^A	730 ^A	247 ^A	106 ^A	416 ^A	135 ^A	281 ^A	56 ^P	155 ^P	705 ^P
7	360 ^A	700 ^A	588 ^A	746 ^A	181 ^A	232 ^A	311 ^A	170 ^A	256 ^A	143 ^P	170 ^P	2400 ^P
8	343 ^A	380 ^A	415 ^A	895 ^A	1510 ^A	196 ^A	356 ^A	203 ^A	154 ^A	70 ^P	242 ^P	1350 ^P
9	398 ^A	402 ^A	252 ^A	753 ^A	1700 ^A	201 ^A	336 ^A	787 ^A	224 ^A	72 ^P	124 ^P	1400 ^P
10	600 ^A	347 ^A	331 ^A	594 ^A	1290 ^A	207 ^A	554 ^A	938 ^A	263 ^A	64 ^P	102 ^P	1780 ^P
11	711 ^A	523 ^A	676 ^A	542 ^A	2050 ^A	141 ^A	499 ^A	446 ^A	253 ^A	155 ^P	92 ^P	1380 ^P
12	2350 ^A	1450 ^A	2000 ^A	948 ^A	2730 ^A	129 ^A	489 ^A	474 ^A	115 ^A	75 ^P	219 ^P	1220 ^P
13	2680 ^A	1330 ^A	2080 ^A	844 ^A	1420 ^A	626 ^A	436 ^A	2170 ^A	213 ^A	73 ^P	210 ^P	1130 ^P
14	2020 ^A	1070 ^A	1430 ^A	656 ^A	948 ^A	1630 ^A	276 ^A	1820 ^A	215 ^A	234 ^P	202 ^P	478 ^P
15	1780 ^A	923 ^A	1120 ^A	589 ^A	919 ^A	800 ^A	316 ^A	939 ^A	108 ^A	99 ^P	93 ^P	489 ^P
16	2400 ^A	540 ^A	838 ^A	388 ^A	1000 ^A	443 ^A	404 ^A	724 ^A	184 ^A	108 ^P	99 ^P	668 ^P
17	2600 ^A	462 ^A	1100 ^A	623 ^A	930 ^A	537 ^A	338 ^A	439 ^A	186 ^A	122 ^P	107 ^P	597 ^P
18	1890 ^A	400 ^A	1110 ^A	518 ^A	578 ^A	359 ^A	292 ^A	326 ^A	174 ^A	141 ^P	213 ^P	367 ^P
19	1300 ^A	557 ^A	1290 ^A	641 ^A	649 ^A	921 ^A	212 ^A	488 ^A	168 ^A	86 ^P	240 ^P	327 ^P
20	1110 ^A	777 ^A	1590 ^A	644 ^A	615 ^A	522 ^A	220 ^A	484 ^A	163 ^A	76 ^P	265 ^P	453 ^P
21	962 ^A	681 ^A	1300 ^A	437 ^A	330 ^A	446 ^A	141 ^A	416 ^A	88 ^A	122 ^P	254 ^P	1270 ^P
22	839 ^A	663 ^A	1090 ^A	380 ^A	284 ^A	363 ^A	286 ^A	451 ^A	136 ^A	115 ^P	253 ^P	1370 ^P
23	639 ^A	332 ^A	717 ^A	342 ^A	340 ^A	227 ^A	941 ^A	519 ^A	203 ^A	120 ^P	220 ^P	1330 ^P
24	615 ^A	393 ^A	781 ^A	316 ^A	312 ^A	279 ^A	1200 ^A	528 ^A	94 ^A	165 ^P	215 ^P	1350 ^P
25	647 ^A	346 ^A	463 ^A	329 ^A	278 ^A	237 ^A	727 ^A	273 ^A	84 ^A	187 ^P	337 ^P	1050 ^P
26	286 ^A	327 ^A	401 ^A	361 ^A	323 ^A	293 ^A	481 ^A	357 ^A	78 ^A	98 ^P	377 ^P	896 ^P
27	290 ^A	387 ^A	359 ^A	238 ^A	302 ^A	688 ^A	468 ^A	345 ^A	157 ^A	83 ^P	1580 ^P	775 ^P
28	356 ^A	509 ^A	325 ^A	232 ^A	201 ^A	930 ^A	272 ^A	2230 ^A	69 ^A	148 ^P	849 ^P	463 ^P
29	1380 ^A	XXXX	302 ^A	271 ^A	185 ^A	1570 ^A	318 ^A	4290 ^A	66 ^A	136 ^P	530 ^P	1310 ^P
30	1280 ^A	XXXX	386 ^A	291 ^A	162 ^A	751 ^A	295 ^A	2020 ^A	149 ^A	134 ^P	409 ^P	2230 ^P
31	3670 ^A	XXXX	735 ^A	XXXX	255 ^A	XXXX	247 ^A	975 ^A	XXXX	133 ^P	XXXX	1520 ^P

² The above data was obtained from the automated U.S. Geological Survey (USGS) database. Data annotated with an ^A are approved for publication. Data with a ^P have not received Director's approval and as such are provisional and subject to revision. The data are released on the condition that neither the USGS nor the United States Government may be held liable for any damages resulting from its use.

APPENDIX D

DISSOLVED OXYGEN MONITORING LOGS

**DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG**

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
6/3/2013	10:00	23.3	7.98	10:15	15.2	8.21	0		4 - OPEN	2021.9	
6/3/2013	12:00	24.3	7.61	12:15	14.6	8.92	2	11:00 - 14:00	4 - OPEN		2028.1
6/3/2013	2:45	24.8	7.69	2:55	15.5	8.40	0		4 - OPEN	2021.9	
6/7/2013	10:27	23.6	8.02	10:34	15.1	7.52	0		4 - OPEN	2022.0	
6/7/2013	11:46	24.0	7.70	11:52	14.8	8.85	2	11:00 - 14:00	4 - OPEN		2028.1
6/7/2013	14:35	23.7	7.81	14:41	15.8	8.07	0		4 - OPEN	2022.0	
6/10/2013	9:35	21.6	8.11	9:45	13.1	6.61	0		4 - OPEN	2021.7	
6/10/2013	13:30	22.9	7.87	13:40	15.2	8.81	2	11:00 - 14:00	4 - OPEN		2028.1
6/10/2013	14:30	22.8	7.93	14:40	15.5	17.90	0		4 - OPEN	2021.7	
6/21/2013	10:27	21.9	8.15	10:35	13.4	6.04	0		4 - OPEN	2022.6	
6/21/2013	11:32	23.0	7.97	11:39	15.4	8.14	2	11:00 - 14:00	4 - OPEN		2028.1
6/21/2013	14:20	24.7	7.74	14:32	16.1	7.17	0		4 - OPEN	2022.6	
6/22/2013	8:55	23.6	7.89	9:04	13.3	6.16	0		4 - OPEN	2022.3	
6/22/2013	11:48	24.0	7.82	11:56	15.8	8.27	2	11:00 - 14:00	4 - OPEN		2028.1
6/22/2013	14:35	25.2	7.64	14:41	16.6	6.82	0		4 - OPEN	2022.3	
6/28/2013	10:25	23.9	7.83	10:33	13.5	6.20	0		4 - OPEN	2023.0	
6/28/2013	11:35	24.9	7.77	11:44	15.7	8.02	2	11:00 - 17:00	4 - OPEN		2028.1
7/6/2013	10:15	26.4	7.43	10:21	13.5	5.53	0		4 - OPEN	2022.3	
7/6/2013	11:50	25.1	7.66	12:00	15.7	6.73	2	11:00-17:00	4 - OPEN		2028.1
7/7/2013	10:00	24.1	8.00	10:15	13.7	5.40	0		4 - OPEN	2022.4	
7/7/2013	12:00	26.4	7.38	12:15	15.5	6.45	2	11:00 - 14:00	4 - OPEN		2028.1
7/7/2013	14:35	27.3	7.16	14:42	16.1	6.00	0		4 - OPEN	2022.4	

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
7/12/2013	10:23	23.8	8.07	10:31	13.9	5.27	0		4 - OPEN	2022.3	
7/12/2013	11:50	26.2	7.50	11:59	15.6	6.46	2	11:00 - 19:00	4 - OPEN		2028.1
7/13/2013	10:30	22.2	8.09	10:40	13.7	4.95	0		4 - OPEN	2022.4	
7/13/2013	11:40	24.0	8.00	11:50	15.7	6.00	2	11:00 - 14:30	4 - OPEN		2028.1
7/15/2013	8:30	22.4	8.37	8:38	13.9	3.74	0		4 - OPEN	2022.2	
7/15/2013	13:00	24.2	7.76	13:09	15.9	5.98	2	11:00 - 14:00	4 - OPEN		2028.1
7/16/2013	10:00	22.4	8.36	10:04	13.8	3.75	0		4 - OPEN	2022.1	
7/16/2013	14:00	23.8	7.80	14:12	15.7	4.92	2	09:30 - 19:00	4 - OPEN		2028.1
7/19/2013	9:30	24.4	7.74	9:37	14.3	2.82	0		2 - Closed 2 - Open 6"	2022.0	
7/19/2013	13:15	24.3	7.78	13:22	15.9	6.93	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
7/19/2013	14:30	24.3	7.77	14:35	16.5	3.68	0		2 - Closed 2 - Open 6"	2022.0	
7/20/2013	10:47	23.4	7.75	10:55	14.7	3.00	0		2 - Closed 2 - Open 6"	2022.2	
7/20/2013	11:50	18.2	7.45	11:59	16.2	7.20	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
7/20/2013	14:30	23.0	7.80	14:40	14.9	3.20	0		2 - Closed 2 - Open 6"	2022.2	
7/26/2013	10:30	23.1	7.97	10:45	14.1	2.36	0		2 - Closed 2 - Open 6"	2023.0	
7/26/2013	11:47	18.2	9.26	12:00	16.8	7.00	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
7/26/2013	14:15	23.3	8.00	14:25	15.0	3.00	0		2 - Closed 2 - Open 6"	2023.0	
7/29/2013	9:15	22.9	7.99	9:23	13.9	1.94	0		2 - Closed 2 - Open 6"	2022.3	
7/29/2013	11:40	21.2	8.23	11:50	16.4	6.24	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
7/29/2013	14:35	22.1	8.10	14:42	16.9	2.25	0		2 - Closed 2 - Open 6"	2022.3	

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
8/2/2013	10:07	24.4	7.75	10:15	13.8	1.77	0		2 - Closed 2 - Open 6"	2022.0	
8/2/2013	11:45	21.4	8.25	11:57	16.7	6.00	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/2/2013	14:30	22.0	8.13	14:40	17.0	2.50	0		2 - Closed 2 - Open 6"	2022.0	
8/3/2013	10:30	22.5	7.70	10:40	14.3	1.95	0		2 - Closed 2 - Open 6"	2022.0	
8/3/2013	11:40	22.3	7.60	12:00	16.8	5.50	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/3/2013	14:35	22.1	8.20	14:50	16.8	2.00	0		2 - Closed 2 - Open 6"	2022.0	
8/5/2013	10:00	22.3	8.00	10:07	14.2	2.47	0		2 - Closed 2 - Open 6"	2022.0	
8/5/2013	11:47	22.8	8.50	11:57	16.7	5.94	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/5/2013	14:30	23.4	8.22	14:40	15.7	3.00	0		2 - Closed 2 - Open 6"	2022.0	
8/12/2013	10:30	23.3	7.92	10:40	14.4	1.66	0		2 - Closed 2 - Open 6"	2022.4	
8/12/2013	12:30	23.3	7.89	12:40	16.9	5.96	2	11:00 - 18:00	2 - Closed 2 - Open 6"		2028.5
8/16/2013	10:25	22.5	8.00	10:32	14.8	1.48	0		2 - Closed 2 - Open 6"	2022.8	
8/16/2013	12:30	22.7	8.01	12:38	18.1	6.30	2	11:00 - 20:00	2 - Closed 2 - Open 6"		2028.5
8/17/2013	10:30	22.3	8.07	10:35	15.0	1.69	0		2 - Closed 2 - Open 6"	2022.6	
8/17/2013	13:02	26.8	7.45	13:09	18.3	6.36	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/19/2013	10:23	22.7	7.85	10:30	14.9	1.57	0		2 - Closed 2 - Open 6"	2022.5	
8/19/2013	11:43	25.2	7.88	11:51	18.4	6.12	2	11:00 - 17:00	2 - Closed 2 - Open 6"		2028.5
8/23/2013	10:42	22.3	7.89	10:50	14.9	1.55	0		2 - Closed 2 - Open 6"	2022.3	
8/23/2013	11:47	22.9	7.80	11:53	18.2	6.10	2	11:00 - 17:00	2 - Closed 2 - Open 6"		2028.5

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
8/24/2013	10:36	22.9	7.84	10:44	14.7	1.52	0		2 - Closed 2 - Open 6"	2022.9	
8/24/2013	11:36	24.2	7.84	11:42	18.3	6.14	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/24/2013	14:31	26.1	7.21	14:38	16.7	3.34	0		2 - Closed 2 - Open 6"	2022.9	
8/26/2013	10:25	23.9	7.81	10:31	14.6	1.46	0		2 - Closed 2 - Open 6"	2022.2	
8/26/2013	11:53	23.9	7.77	12:01	18.0	6.18	2	11:00 - 17:00	2 - Closed 2 - Open 6"		2028.5
9/2/2013	9:31	23.3	7.86	9:39	14.8	1.41	0		2 - Closed 2 - Open 6"		
9/2/2013	10:46	24.2	7.59	10:53	18.5	6.98	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/2/2013	13:33	24.6	7.37	13:40	16.8	2.92	0		2 - Closed 2 - Open 6"		
9/6/2013	9:40	23.4	7.89	9:48	15.0	1.32	0		2 - Closed 2 - Open 6"	2022.2	
9/6/2013	11:00	34.7	6.58	11:08	18.7	7.00	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/6/2013	13:40	24.0	7.90	13:45	15.4	2.00	0		2 - Closed 2 - Open 6"	2022.2	
9/7/2013	9:40	23.6	7.84	9:50	15.3	1.42	0		2 - Closed 2 - Open 6"	2022.1	
9/7/2013	10:40	23.2	7.88	10:50	18.8	6.81	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/7/2013	13:40	24.4	7.56	13:50	19.5	3.62	0		2 - Closed 2 - Open 6"	2022.1	
9/9/2013	9:35	23.8	7.83	9:43	15.3	1.39	0		2 - Closed 2 - Open 6"	2022.0	
9/9/2013	11:15	23.8	7.81	11:23	19.0	6.88	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/9/2013	13:45	23.9	7.78	13:52	19.7	3.78	0		2 - Closed 2 - Open 6"	2022.0	
9/13/2013	9:40	23.6	7.84	9:50	15.3	1.42	0		2 - Closed 2 - Open 6"	2022.1	
9/13/2013	11:15	23.8	7.81	11:23	19.0	6.88	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/13/2013	13:40	23.9	7.78	13:44	19.8	3.88	0		2 - Closed 2 - Open 6"	2022.1	

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
9/14/2013	9:30	23.7	7.86	9:38	15.4	1.43	0		2 - Closed 2 - Open 6"	2022.0	
9/14/2013	12:20	23.9	7.80	12:39	20.0	3.78	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/14/2013	13:35	23.9	7.76	13:50	19.9	2.00	0		2 - Closed 2 - Open 6"	2022.0	
9/16/2013	9:45	23.5	7.85	9:53	15.7	1.45	0		2 - Closed 2 - Open 6"	2021.9	
9/16/2013	11:00	22.0	8.00	11:06	18.6	7.28	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/16/2013	13:17	23.5	7.90	13:20	18.7	5.00	0		2 - Closed 2 - Open 6"	2021.9	
9/17/2013	9:40	23.5	7.85	9:53	15.7	1.47	0		2 - Closed 2 - Open 6"	2021.9	
9/17/2013	11:13	22.0	8.00	11:25	18.6	7.28	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/17/2013	13:12	23.5	7.90	13:20	18.9	4.90	0		2 - Closed 2 - Open 6"	2021.9	
9/18/2013	9:45	23.8	7.63	9:52	15.5	1.50	0		2 - Closed 2 - Open 6"	2021.9	
9/18/2013	12:45	23.4	7.93	13:00	18.6	7.26	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/18/2013	14:00	23.6	7.88	14:10	16.3	2.00	0		2 - Closed 2 - Open 6"	2021.9	
9/19/2013	9:45	23.5	7.87	9:53	15.7	1.47	0		2 - Closed 2 - Open 6"	2021.8	
9/19/2013	11:00	22.0	8.04	11:06	18.6	7.27	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/19/2013	13:16	23.5	7.91	13:23	18.7	5.02	0		2 - Closed 2 - Open 6"		
9/19/2013	9:45	23.8	7.63	9:52	15.5	1.50	0		2 - Closed 2 - Open 6"	2021.8	
9/19/2013	12:45	23.4	7.93	13:00	18.6	7.26	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/19/2013	14:00	23.6	7.88	14:10	16.3	2.00	0		2 - Closed 2 - Open 6"	2021.8	

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
10/5/2013	9:40	28.5	7.69	9:45	16.0	2.50	0		2 - Closed 2 - Open 6"	2021.7	
10/5/2013	12:30	24.5	8.04	12:40	17.8	7.40	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
10/5/2013	13:40	25.0	7.79	14:00	17.3	2.55	0		2 - Closed 2 - Open 6"	2021.7	

APPENDIX E

WATER APPROPRIATION AND USE PERMIT - GA1992S009(08)



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Robert M. Summers, Ph.D.
Secretary

Anthony G. Brown
Lieutenant Governor

June 17, 2011

CERTIFIED MAIL - 7008 1830 0002 9396 6633
Return Receipt Requested

BROOKFIELD POWER PINEY & DEEP CREEK LLC
C/O GLENN NEIPOINT, SUPERINTENDENT
2000 RIVER ROAD
CLARION, PA 16124

RE: State Water Appropriation
Permit No. GA1992S009(08)
Revision 08

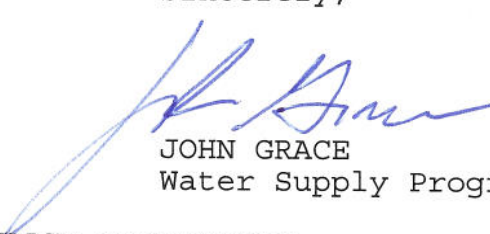
Dlym
Dear Mr. Neiport:

Enclosed is your revised State Water Appropriation Permit. This permit reflects the Department's careful consideration of the various beneficial uses at Deep Creek Lake with the goal of balancing the needs of the stakeholders. Brookfield's participation in the stakeholder process and its commitment to complying with the permit is appreciated.

As you know, semi-annual Water Withdrawal Reports are required by this permit. Forms for making these reports will be mailed to you in June and December of each year.

If you have any questions, please contact this office at (410) 537-3590.

Sincerely,


JOHN GRACE
Water Supply Program

cc: GARRETT COUNTY HEALTH DEPARTMENT
RANDY GARLETTS, BROOKFIELD POWER PINEY & DEEP CREEK LLC

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

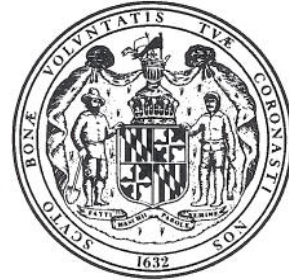
WATER APPROPRIATION AND USE PERMIT

PERMIT NUMBER: GA1992S009(08)

EFFECTIVE DATE: JUNE 1, 2011

EXPIRATION DATE: APRIL 1, 2019

FIRST APPROPRIATION: JANUARY 1, 1925



BROOKFIELD POWER PINEY & DEEP CREEK LLC

HEREINAFTER REFERRED TO AS THE "PERMITTEE", IS AUTHORIZED BY THE WATER MANAGEMENT ADMINISTRATION, HEREINAFTER REFERRED TO AS THE "ADMINISTRATION" PURSUANT TO THE PROVISIONS OF TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME) AS AMENDED, TO APPROPRIATE AND USE WATERS OF THE STATE SUBJECT TO THE FOLLOWING CONDITIONS:

1. ALLOCATION - THE WATER WITHDRAWAL GRANTED BY THIS PERMIT IS LIMITED TO:
A DAILY AVERAGE OF 94,000,000 GALLONS ON A YEARLY BASIS AND A MAXIMUM DAILY WITHDRAWAL OF 420,000,000 GALLONS.
2. USE - THE WATER IS TO BE USED FOR HYDROELECTRIC GENERATION, TEMPERATURE ENHANCEMENT, WHITEWATER BOATING ENHANCEMENT, AND MAINTENANCE OF MINIMUM FLOWS IN THE YOUGHIOGHENY RIVER.
3. SOURCE - THE WATER SHALL BE TAKEN FROM DEEP CREEK LAKE.
4. LOCATION - THE POINT(S) OF WITHDRAWAL SHALL BE LOCATED AT THE EXISTING INTAKE STRUCTURE AT THE DEEP CREEK LAKE DAM, THREE MILES WEST OF THAYERVILLE, GARRETT COUNTY, MARYLAND.

CONTINUED ON PAGE 2

5. RIGHT OF ENTRY - THE PERMITTEE SHALL ALLOW AUTHORIZED REPRESENTATIVES OF THE ADMINISTRATION ACCESS TO THE PERMITTEE'S FACILITY TO CONDUCT INSPECTIONS AND EVALUATIONS NECESSARY TO ASSURE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT. THE PERMITTEE SHALL PROVIDE SUCH ASSISTANCE AS MAY BE NECESSARY TO EFFECTIVELY AND SAFELY CONDUCT SUCH INSPECTIONS AND EVALUATIONS.
6. PERMIT REVIEW - THE PERMITTEE WILL BE QUERIED EVERY THREE YEARS (TRIENNIAL REVIEW) REGARDING WATER USE UNDER THE TERMS AND CONDITIONS OF THIS PERMIT. FAILURE TO RETURN THE TRIENNIAL REVIEW QUERY WILL RESULT IN SUSPENSION OR REVOCATION OF THIS PERMIT.
7. PERMIT RENEWAL - THIS PERMIT WILL EXPIRE ON THE DATE INDICATED ON THE FIRST PAGE OF THIS PERMIT. IN ORDER TO RENEW THE PERMIT THE PERMITTEE SHALL FILE A RENEWAL APPLICATION WITH THE ADMINISTRATION NO LATER THAN 45 DAYS PRIOR TO THE EXPIRATION.
8. PERMIT SUSPENSION OR REVOCATION - THIS PERMIT MAY BE SUSPENDED OR REVOKED BY THE ADMINISTRATION UPON VIOLATION OF THE CONDITIONS OF THIS PERMIT, OR UPON VIOLATION OF ANY REGULATION PROMULGATED PURSUANT TO TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (1996 REPLACEMENT VOLUME) AS AMENDED.
9. CHANGE OF OPERATIONS - ANY ANTICIPATED CHANGE IN APPROPRIATION WHICH MAY RESULT IN A NEW OR DIFFERENT USE, QUANTITY, SOURCE, OR PLACE OF USE OF WATER SHALL BE REPORTED TO THE ADMINISTRATION BY THE PERMITTEE BY SUBMISSION OF A NEW APPLICATION.
10. ADDITIONAL PERMIT CONDITIONS - THE ADMINISTRATION MAY AT ANYTIME (INCLUDING TRIENNIAL PERMIT REVIEW OR WHEN A CHANGE APPLICATION IS SUBMITTED) REVISE ANY CONDITION OF THIS PERMIT OR ADD ADDITIONAL CONDITIONS CONCERNING THE CHARACTER, AMOUNT, MEANS AND MANNER OF THE APPROPRIATION OR USE, WHICH MAY BE NECESSARY TO PROPERLY PROTECT, CONTROL AND MANAGE THE WATER RESOURCES OF THE STATE. CONDITION REVISIONS AND ADDITIONS WILL BE ACCOMPLISHED BY ISSUANCE OF A REVISED PERMIT.
11. NON-TRANSFERRABLE - THIS PERMIT IS NON-TRANSFERRABLE. A NEW OWNER MAY ACQUIRE AUTHORIZATION TO CONTINUE THIS APPROPRIATION BY FILING A NEW APPLICATION WITH THE ADMINISTRATION. AUTHORIZATION WILL BE ACCOMPLISHED BY ISSUANCE OF A NEW PERMIT.

12. FLOW MEASUREMENT - THE PERMITTEE SHALL MEASURE ALL WATER USED UNDER THIS PERMIT BY A METHOD WHICH SHALL BE APPROVED BY THE ADMINISTRATION. THE PERMITTEE SHALL MAINTAIN A DAILY LOG, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.
13. WITHDRAWAL REPORTS - THE PERMITTEE SHALL SUBMIT TO THE ADMINISTRATION, SEMI-ANNUALLY (JULY-DECEMBER, NO LATER THAN JANUARY 31 AND JANUARY-JUNE, NO LATER THAN JULY 31), WATER USE RECORDS. THESE RECORDS SHALL SHOW THE TOTAL QUANTITY OF WATER RELEASED EACH MONTH UNDER THIS PERMIT.
14. RULE BAND AND OPERATION PROTOCOLS - THE PERMITTEE SHALL OPERATE THE DEEP CREEK HYDROELECTRIC PROJECT (PROJECT) ACCORDING TO THE PROJECT OPERATING RULES SPECIFIED THROUGHOUT THIS PERMIT SUCH THAT WATER ELEVATIONS IN DEEP CREEK LAKE ARE MAINTAINED WITHIN THE OPERATING RULE BAND EXCEPT THAT EXCURSIONS OF UP TO 0.3 FEET ABOVE THE OPERATING RULE BAND LASTING NOT MORE THAN 21 DAYS ARE ALLOWED FROM MAY THROUGH OCTOBER, AND EXCEPT IN THE EVENT OF UNUSUAL OR EMERGENCY CONDITIONS AS DEFINED BELOW. THE UPPER AND LOWER RULE BANDS ARE THE HIGHEST AND LOWEST DESIRABLE RESERVOIR LEVELS AT THE END OF EACH MONTH. THE UPPER AND LOWER END OF EACH MONTH ARE DEFINED IN THE FOLLOWING TABLE. WHEN LAKE LEVELS ARE ABOVE THE UPPER RULE BAND, THE PERMITTEE MAY RELEASE WATER AS NEEDED TO DRAW DOWN THE LAKE TO A LEVEL WITHIN THE RULE BAND. ELEVATIONS ARE GIVEN IN FEET ABOVE MEAN SEA LEVEL.

PROJECT OPERATING RULE BAND

MONTH	UPPER BAND ELEVATIONS	LOWER BAND ELEVATIONS
JANUARY	2457.9	2455.0
FEBRUARY	2457.9	2456.0
MARCH	2459.5	2458.0
APRIL	2461.0	2459.6
MAY	2461.0	2460.0
JUNE	2461.0	2460.0
JULY	2461.0	2459.0
AUGUST	2460.0	2458.0
SEPTEMBER	2459.0	2457.0
OCTOBER	2458.0	2456.0
NOVEMBER	2457.9	2455.0
DECEMBER	2457.9	2455.0

- (A) A SYSTEM EMERGENCY, DEFINED AS MAXIMUM EMERGENCY GENERATION UNDER THE PENNSYLVANIA-NEW JERSEY-MARYLAND INTERCONNECTION (PJM) HIERARCHY OF EMERGENCY ORDERS, OR EMERGENCY LOADING OF SPINNING RESERVE CAPACITY, OR EMERGENCY CONTROL OF TRANSMISSION FACILITY LOADING;

14. RULE BAND AND OPERATION PROTOCOLS CONT'D

- (B) A SITE EMERGENCY SUCH AS FAILURE OR PROBABLE FAILURE OF THE DAM THAT REQUIRES MAXIMUM RELEASE FOR RAPID DRAWDOWN OF THE RESERVOIR;
- (C) A SITE EMERGENCY OR OTHER FORCED (UNSCHEDULED) OUTAGE REQUIRING SHUTDOWN OF THE INTAKE, POWER TUNNEL, PENSTOCKS, OR GENERATING UNITS, RESULTING IN THE INABILITY TO GENERATE OR TO OPERATE THE PROPOSED MINIMUM RELEASE BYPASS;
- (D) MAINTENANCE OF THE DAM OR REPAIR OF LAKE SHORELINE EROSION WHICH REQUIRES LOWERING OF LAKE LEVEL BELOW THE LOWER RULE BAND TO ALLOW ACCESS OR TO CONTROL INFLOW;
- (E) ACTUAL OR FORECAST EXTRAORDINARILY HIGH RUNOFF OR RAINFALL WHICH REQUIRES UNLIMITED GENERATION IN ORDER TO KEEP THE LAKE LEVEL FROM AVOID SPILLING OVER THE TOP OF THE DAM SPILLWAY.

THE DURATION AND TIMING OF PLANNED OUTAGES SHALL BE APPROVED IN ADVANCE BY THE ADMINISTRATION. IN PROPOSING PLANNED OUTAGES, THE PERMITTEE SHALL DETAIL REASONS WHY THE OUTAGE IS NECESSARY AS WELL AS HOW THE OUTAGE WILL IMPACT THE FISHERY AND WHITEWATER RECREATION IN THE YOUGHIOGHENY RIVER. TO THE EXTENT POSSIBLE, PLANNED OUTAGES SHALL NOT OCCUR DURING MID-APRIL THROUGH MID-OCTOBER.

- 15. LAKE LEVEL MONITORING AND REPORTING - THE PERMITTEE SHALL MEASURE AND RECORD THE WATER ELEVATIONS IN THE DEEP CREEK LAKE AT APPROXIMATELY THE SAME TIME EACH DAY. THE PERMITTEE SHALL REPORT THE RESULTS OF WATER-LEVEL MONITORING TO THE ADMINISTRATION ON AN ANNUAL BASIS, AND SHALL MAINTAIN A DAILY LOG OF MEASUREMENTS, SUBJECT TO INSPECTION BY THE ADMINISTRATION.
- 16. TEMPERATURE ENHANCEMENT IN THE YOUGHIOGHENY RIVER - THE PERMITTEE SHALL IMPLEMENT A PLAN APPROVED BY THE ADMINISTRATION FOR USING PROJECT OPERATION, OR A COMBINATION OF MINIMUM FLOW RELEASES AND PROJECT OPERATION, TO MAINTAIN WATER TEMPERATURES LESS THAN 25 DEGREES C IN THE YOUGHIOGHENY RIVER BETWEEN THE PROJECT TAILRACE AND SANG RUN, DURING THE MONTHS OF JUNE, JULY, AND AUGUST. THE PLAN MUST INCLUDE A TRIGGERING MECHANISM AND REAL-TIME MONITORING OF RIVER TEMPERATURE. THE PLAN MUST INCLUDE A PROTOCOL FOR PREDICTING TEMPERATURE RELEASES ON THE MORNING OF THE RELEASE, AS EARLY AS THREE HOURS IN ADVANCE. THE PERMITTEE SHALL REPORT TO THE ADMINISTRATION ALL OCCURRENCES OF WATER TEMPERATURES EQUALING

16. TEMPERATURE ENHANCEMENT IN THE YOUGHIOGHENY RIVER CONT'D

OR EXCEEDING 25 DEGREES C WITHIN 30 DAYS OF THE DATE OF OCCURRENCE, INCLUDING PROPOSED MEASURES OR CHANGES TO THE PLAN TO PRECLUDE FUTURE INCIDENTS WHERE WATER TEMPERATURE EQUALS OR EXCEEDS 25 DEGREES C. THE PERMITTEE SHALL INCLUDE THE RESULTS OF TEMPERATURE MONITORING IN AN ANNUAL REPORT. THE PERMITTEE SHALL, IN CONSULTATION WITH THE ADMINISTRATION, CONTINUE TO REFINE OR REVISE THE PLAN WITH THE OBJECTIVE OF MAINTAINING WATER TEMPERATURES IN THE RIVER BETWEEN THE PROJECT TAILRACE AND SANG RUN BELOW 25 DEGREES C AT ALL TIMES DURING THE MONTHS OF JUNE, JULY AND AUGUST.

17. MINIMUM FLOW RELEASES - THE PERMITTEE SHALL MAINTAIN AND OPERATE A BYPASS SYSTEM AT THE PROJECT TO MAINTAIN A MINIMUM FLOW OF 40 CFS IN THE YOUGHIOGHENY RIVER DOWNSTREAM OF THE PROJECT TAILRACE. THE MINIMUM FLOW SHALL BE MAINTAINED AT ALL TIMES BELOW THE TAILRACE. A REDUCTION IN THE MINIMUM FLOW BELOW 40 CFS MAY BE REQUESTED OF THE ADMINISTRATION WHEN RESERVOIR LEVELS ARE ONE FOOT OR MORE BELOW THE LOWER RULE BAND. THE PERMITTEE SHALL ESTIMATE FLOW IN THE YOUGHIOGHENY RIVER IMMEDIATELY BELOW THE TAILRACE AT APPROXIMATELY THE SAME TIME EACH DAY. MEASUREMENTS TAKEN BY THE PERMITTEE IN MARCH 2011 INDICATE THAT 20.7 CFS FLOWED IN THE TAILRACE WHEN THE BYPASS SYSTEM WAS CLOSED, BOTH PENSTOCKS WERE OPEN, WICKET GATES WERE CLOSED AND NO POWER GENERATION WAS OCCURRING. THE PERMITTEE SHALL USE THE BEST AVAILABLE ESTIMATE OF CURRENT LEAKAGE THROUGH THE WICKET GATES TO DETERMINE THE QUANTITY OF BYPASS FLOW NEEDED TO MEET THE 40 CFS FLOW IN THE YOUGHIOGHENY RIVER BELOW THE TAILRACE. A REPORT OF FLOW ESTIMATES AND THE OCCURRENCE OF BYPASS RELEASES SHALL BE SUBMITTED TO THE ADMINISTRATION IN AN ANNUAL REPORT, AND A DAILY LOG OF SUCH RELEASES SHALL BE MAINTAINED, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.

THE PERMITTEE SHALL PROVIDE A CONTINUOUS FLOW OF AT LEAST 9 CFS IN THE TAILRACE (WICKET GATE LOSS) DURING THE MONTHS OF JUNE, JULY, AUGUST, AND SEPTEMBER EVEN WHEN THERE IS NO MINIMUM BYPASS FLOW AS REQUIRED BY THIS CONDITION.

THE PERMITTEE SHALL MEASURE FLOW IN THE TAILRACE, FOLLOWING METHODS OF THE UNITED STATES GEOLOGICAL SURVEY (USGS), DURING THE MONTHS OF JUNE, AUGUST, AND OCTOBER 2011. FLOW SHALL BE MEASURED WHEN NO POWER GENERATION IS OCCURRING, THE WICKET GATES ARE CLOSED, THE BYPASS FLOW VALVE IS CLOSED, WITH ONE PENSTOCK VALVE OPEN, AND THEN WITH BOTH PENSTOCK VALVES ARE OPEN.

17. MINIMUM FLOW RELEASES CONT'D

THE PERMITTEE SHALL REPORT THE RESULTS OF THE MEASUREMENTS TO THE ADMINISTRATION WITHIN TWO WEEKS OF THE MEASUREMENTS WITH ALL SUPPORTING RAW DATA AND CALCULATIONS, AND DOCUMENTATION OF VELOCITY METER USED AND VALVE POSITIONS.

BY DECEMBER 31, 2011 THE PERMITTEE SHALL SUBMIT A PLAN TO THE ADMINISTRATION FOR REVIEW AND APPROVAL OUTLINING BOTH NEAR TERM AND LONGER TERM MEASURES THAT THE PERMITTEE WILL TAKE TO MINIMIZE THE ADVERSE IMPACTS OF WICKET GATE LOSSES ON LAKE LEVELS WHILE MAINTAINING A REQUIRED MINIMUM DISCHARGE OF 9 CFS IN THE TAILRACE.

18. DISSOLVED OXYGEN MITIGATION - THE PERMITTEE SHALL MAINTAIN AND OPERATE A TAILRACE WEIR DESIGNED TO INCREASE DISSOLVED OXYGEN LEVELS IN ALL PROJECT DISCHARGES ABOVE MARYLAND WATER QUALITY STANDARDS AS OUTLINED IN COMAR 26.08.02 (5 PPM MINIMUM, 6 PPM DAILY AVERAGE). THE PERMITTEE SHALL MONITOR DISSOLVED OXYGEN LEVELS OF PROJECT DISCHARGES BY A METHOD APPROVED BY THE ADMINISTRATION DURING JUNE 1 TO OCTOBER 1. THE RESULTS OF DISSOLVED OXYGEN MONITORING SHALL BE SUBMITTED TO THE ADMINISTRATION IN AN ANNUAL REPORT. THE PERMITTEE SHALL MAINTAIN A LOG OF MEASUREMENTS, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.

19. RELEASES FOR WHITEWATER RECREATION

- A) WHITEWATER RELEASES. THERE ARE TWO TYPES OF SCHEDULED WHITEWATER RELEASES (WWR); STANDARD AND SPECIAL RELEASES. ALL WWR ARE SUBJECT TO THE RULE BAND AND OPERATION REQUIREMENTS IN CONDITION 14, THE TEMPERATURE ENHANCEMENT RELEASE (TER) REQUIREMENTS IN CONDITION 16 AND THE PARAMETERS DEFINED BELOW IN PARAGRAPH B. THE INTENT OF WWR IS TO ENHANCE RECREATIONAL WHITEWATER ENJOYMENT FROM THE PROJECT TAILRACE TO FRIENDSVILLE.

19. RELEASES FOR WHITEWATER RECREATION CONT'D

I) STANDARD WWR. WITH THE EXCEPTION OF THE SPECIAL WWR CONDITIONS IN PARAGRAPH II) BELOW, STANDARD WWR WILL OCCUR ON SUNDAYS, MONDAYS, FRIDAYS, AND SATURDAYS BETWEEN APRIL 15TH AND OCTOBER 15TH IN ACCORDANCE WITH THE FOLLOWING TABLE AND MAY BE MODIFIED BY ITEMS II) AND III) BELOW.

<u>MONTH</u>	<u>SUNDAY</u>	<u>MONDAY</u>	<u>FRIDAY</u>	<u>SATURDAY</u>
APRIL	NONE	NONE	ALL FRIDAYS AFTER APRIL 14TH (1000 HR TO 1300 HR)	NONE
MAY	NONE	1ST TWO MONDAYS (1000 HR TO 1300 HR)	1ST THREE FRIDAYS (1000 HR TO 1300 HR)	1ST SATURDAY (1000 HR TO 1300 HR)
MEMORIAL DAY WEEKEND	ODD NUMBERED YEARS (1000 HR TO 1300 HR)	ODD NUMBERED YEARS (1000 HR TO 1300 HR)	EVEN NUMBERED YEARS (1000 HR TO 1300 HR)	EVEN NUMBERED YEARS (1000 HR TO 1300 HR)
JUNE	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	LAST TWO SATURDAYS (1100 HR TO 1400 HR)
JULY	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	EVERY SATURDAY (1100 HR TO 1400 HR) (see also Special WWR below)
AUGUST	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	EVERY SATURDAY (1100 HR TO 1400 HR)
SEPTEMBER	NONE	EVERY MONDAY (1000 HR TO 1300 HR)	EVERY FRIDAY (1000 HR TO 1300 HR)	FIRST TWO SATURDAYS (1000 HR TO 1300 HR)
OCTOBER	NONE	ALL MONDAYS BEFORE OCTOBER 16TH (1000 HR TO 1300 HR)	ALL FRIDAYS BEFORE OCTOBER 16TH (1000 HR TO 1300 HR)	FIRST SATURDAY (1000 HR TO 1300 HR)

19. RELEASES FOR WHITEWATER RECREATION CONT'D

- II) SPECIAL WWR. SPECIAL WWR MUST BE REQUESTED IN WRITING TO THE ADMINISTRATION NO LATER THAN 30 CALENDAR DAYS BEFORE THE SPECIAL WWR AND WILL, AT A MINIMUM, INCLUDE:
 - + ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR. THE FOURTH SATURDAY WWR IN JULY WILL BE AN EXTENDED SIX (6) HOUR CONTINUOUS RELEASE BETWEEN 1100 HOURS AND 1700 HOURS TO ACCOMMODATE THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE. THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR IS CONTINGENT ON THE LAKE LEVEL ELEVATION BEING HIGHER THAN THE ONE (1) FOOT BELOW THE LOWER RULE BAND ON THE DAY OF THE WWR.
 - + GAULEY WEEK WWR. GAULEY WEEK RELEASES INCLUDE CONTINUOUS THREE (3) HOUR RELEASES FROM 1000 HOURS TO 1300 HOURS ON TUESDAY, WEDNESDAY, AND THURSDAY OF THE WEEK BEFORE THE GAULEY FESTIVAL WEEKEND IN SUMMERSVILLE, WEST VIRGINIA. THE GAULEY FESTIVAL WEEKEND IS TYPICALLY SCHEDULED DURING THE SECOND HALF OF SEPTEMBER. EACH DAY OF THE GAULEY WEEK WWR IS CONTINGENT ON THE LAKE LEVEL ELEVATION BEING HIGHER THAN THE LOWER RULE BAND.
- III) SYNCHRONIZATION OF WWR WITH TER. ON SCHEDULED WWR DAYS THE PERMITTEE IS NOT REQUIRED TO RUN THE TER PROTOCOL, UNLESS THE WWR WOULD NOT OCCUR DUE TO LOW LAKE LEVELS.
- B) FROM APRIL 15TH THROUGH OCTOBER 15TH, THE FOLLOWING ADDITIONAL OPERATING RULES WILL ALSO BE IN EFFECT:
 - I) THE PERMITTEE SHALL NOT OPERATE THE PROJECT FOR HYDROELECTRIC GENERATION BEFORE 1300 HOURS WHEN NATURAL FLOWS AS MEASURED AT FRIENDSVILLE USGS GAGE 03076500 (FRIENDSVILLE) ARE BETWEEN 1300 AND 2500 CFS UNLESS AN UNUSUAL OR EMERGENCY CONDITION EXISTS, OR LAKE EXCEEDS THE UPPER RULE BAND.

19. RELEASES FOR WHITEWATER RECREATION CONT'D

- II) WHEN NATURAL FLOWS AS MEASURED AT FRIENDSVILLE ARE GREATER THAN 600, BUT LESS THAN 1300 CFS, AND LAKE ELEVATION IS WITHIN THE RULE BANDS SPECIFIED IN CONDITION 14, POWERHOUSE DISCHARGE SHALL BE NO GREATER THAN THE MAXIMUM DISCHARGE OF ONE TURBINE FOR THE FIRST THREE (3) HOURS OF SCHEDULED GENERATION.
- III) DURING WEEKS THAT CONTAIN A SATURDAY RELEASE, THE PERMITTEE SHALL MAKE RELEASES ON SATURDAYS WHEN THE LAKE LEVEL IS HIGHER THAN ELEVATION THAT IS ONE FOOT BELOW THE LOWER RULE BAND, AND ON SUNDAYS, MONDAYS AND FRIDAYS WHEN THE LAKE LEVEL IS ABOVE THE LOWER RULE BAND.
- IV) DURING WEEKS THAT DO NOT CONTAIN A SATURDAY RELEASE, THE PERMITTEE SHALL MAKE RELEASES ON FRIDAYS WHEN THE LAKE LEVEL IS HIGHER THAN AN ELEVATION THAT IS ONE FOOT BELOW THE LOWER RULE BAND, AND ON SUNDAYS AND MONDAYS WHEN THE LAKE LEVEL IS ABOVE THE LOWER RULE BAND.
- V) THE PERMITTEE MAY VARY POWERHOUSE DISCHARGE DURING ANY WWR IN ACCORDANCE WITH EITHER OF THE FOLLOWING TWO APPROACHES EXCEPT DURING THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR.
 - (1) 3RD HOUR REGULATION APPROACH
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN 600 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 320 CFS AND MAXIMUM DISCHARGE OF TWO TURBINES DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWERHOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF TWO TURBINES.
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWER HOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF ONE TURBINE.

19. RELEASES FOR WHITEWATER RECREATION CONT'D

(2) ALL HOUR REGULATION APPROACH.

- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN OR EQUAL TO 300 CFS, POWERHOUSE DISCHARGE WILL BE HELD CONSTANT AT MAXIMUM DISCHARGE OF TWO TURBINES FOR ALL THREE HOURS OF ANY WWR.
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS BETWEEN 300 AND 600 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 320 AND MAXIMUM DISCHARGE OF TWO TURBINES DURING ANY PART OF ANY THREE HOUR WWR.
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING ANY PART OF ANY THREE HOUR WWR.
20. ANNOUNCEMENT OF EXPECTED RELEASES - ON EACH THURSDAY, THE PERMITTEE SHALL PLACE ON A RECORDED MESSAGE ACCESSIBLE TO THE PUBLIC BY TELEPHONE, A FORECAST OF EXPECTED RELEASES FOR THE FOLLOWING WEEK. EACH MORNING, BETWEEN 0700 AND 0800 HOURS, THE PERMITTEE SHALL PLACE ON THE RECORDED MESSAGE INFORMATION ON THE SCHEDULED RELEASES FOR THE NEXT 48 HOURS.
21. ZEBRA MUSSEL MONITORING - THE PERMITTEE SHALL IMPLEMENT A ZEBRA MUSSEL (*DREISSENA POLYMORPHA*) MONITORING PROGRAM APPROVED BY THE ADMINISTRATION. THE RESULTS OF SUCH MONITORING SHALL BE SUBMITTED IN AN ANNUAL REPORT.
22. NOTICE OF GENERATION RELEASES - AT STRATEGIC LOCATIONS, SELECTED IN CONSULTATION WITH THE ADMINISTRATION AND INCLUDING THE SANG RUN AND HOYES RUN ACCESS AREAS, THE PERMITTEE SHALL PROMINENTLY DISPLAY WARNING NOTICES REGARDING THE HAZARD OF RAPID WATER LEVEL FLUCTUATIONS ASSOCIATED WITH WATER RELEASES FROM DEEP CREEK LAKE.

23. ANNUAL REPORT - THE PERMITTEE SHALL SUBMIT AN ANNUAL REPORT TO THE ADMINISTRATION NO LATER THAN JANUARY 31 OF EACH YEAR. THE REPORT SHALL INCLUDE THE FOLLOWING DATA FOR THE PREVIOUS CALENDAR YEAR:
- A) LAKE LEVEL MONITORING (CONDITION 15);
 - B) TEMPERATURE MONITORING (CONDITION 16);
 - C) MINIMUM FLOW RELEASE MONITORING (CONDITION 17);
 - D) DISSOLVED OXYGEN MONITORING (CONDITION 18);
 - E) RELEASES UNSUITABLE FOR WHITEWATER RECREATION (CONDITION 19);
 - F) ZEBRA MUSSEL MONITORING (CONDITION 21).
24. PERMIT SUPERSESSION - THIS PERMIT HAS BEEN REVIEWED AND REVISED AND SUPERSEDES THE APPROPRIATION AND USE GRANTED BY THE FOLLOWING PRIOR PERMIT ISSUED TO:
BROOKFIELD POWER PINEY AND DEEP CREEK LLC ON APRIL 27, 2005 (GA1992S009(07))

BY AUTHORITY OF THE DIRECTOR
WATER MANAGEMENT ADMINISTRATION


John W. Grace, Chief
SOURCE PROTECTION AND APPROPRIATION DIV

APPENDIX F

ZEBRA MUSSEL MONITORING REPORTS

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2013

Month 4

Day 15

Hour 13:00

Water Temperature ° F 60

How many days was the sampler exposed to the water prior to collecting this data? 30

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2013

Month 5

Day 7

Hour 11:00

Water Temperature ° F 56

How many days was the sampler exposed to the water prior to collecting this data? 30

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Mike Stemple

Year 2013

Month 6

Day 7

Hour 10:30

Water Temperature ° F 65

How many days was the sampler exposed to the water prior to collecting this data? 61

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2013

Month 7

Day 15

Hour 10:00

Water Temperature ° F 76

How many days was the sampler exposed to the water prior to collecting this data? 28

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2013

Month 8

Day 14

Hour 10:00

Water Temperature ° F 74

How many days was the sampler exposed to the water prior to collecting this data? 23

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2013

Month 9

Day 15

Hour 13:30

Water Temperature ° F 70

How many days was the sampler exposed to the water prior to collecting this data? 27

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Brookfield

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Energy Group
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2013

Month 10

Day 10

Hour 10:40

Water Temperature ° F 66

How many days was the sampler exposed to the water prior to collecting this data? 30

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____
