

**DEEP CREEK HYDROELECTRIC STATION
MARYLAND DEPARTMENT of the ENVIRONMENT
WATER APPROPRIATION PERMIT NO. GA92S009 (03)
GARRETT COUNTY, MARYLAND**

ANNUAL REPORT for 2000

January 2001

BY

RELIANT ENERGY MARYLAND HOLDINGS, LLC

**DEEP CREEK HYDROELECTRIC STATION
MDE WATER APPROPRIATION PERMIT NO. GA92S009 (03)
ANNUAL REPORT for 2000**

TABLE OF CONTENTS

SECTION	PAGE
1.0 SUMMARY.....	1
1.1 Lake Level Monitoring.....	1
1.2 Temperature Monitoring.....	2
1.3 Minimum Flow Release Monitoring	2
1.4 Dissolved Oxygen (DO) Monitoring	2
1.5 Releases Unsuitable For Whitewater Recreation	3
1.6 Zebra Mussel Monitoring	4

APPENDICES

Appendix A - Lake Level Data and Plot

Appendix B - Temperature Monitoring and Release Reports

Appendix C - Flow Bypass Operation Record

Appendix D - Record of Dissolved Oxygen Monitoring

**DEEP CREEK HYDROELECTRIC STATION
MDE WATER APPROPRIATION PERMIT NO. GA92S009 (03)
ANNUAL REPORT for 2000**

1.0 SUMMARY

Reliant Energy Maryland Holdings, LLC (Permittee) holds Water Appropriation Permit GA92S009(03) issued by the Maryland Department of the Environment (Department). Permit GA92S009(03) provides for the continued operation of the Deep Creek Hydroelectric Station previously owned and operated by Sithe Maryland Holdings LLC and Pennsylvania Electric Company. Operation of the facility under Sithe ownership commenced on November 24, 1999. Reliant Energy commenced operation on May 12, 2000.

Permit Condition 23 of the permit requires the Permittee to submit an annual report to the Department, including data and information as specified in Permit Conditions 15-19 and 21. This report covers operation of Deep Creek Station under both Sithe and Reliant ownership.

1.1 Lake Level Monitoring

Appendix A contains daily water level data and a plot depicting lake levels for 2000. Lake levels exceeded the desired end of the month Upper Rule Band by 0.2 feet in May, 0.1 feet in June and 0.1 feet in July. When viewed as a continuous rule band, Reliant maintained the reservoir level above or near the Upper Rule Band for most of June, July and August for maintenance on the emergency spillway and intake structures.

1.2 Temperature Monitoring

The Department approved a "Water Temperature Enhancement Plan" for Deep Creek Station on June 8, 1996. The Plan was designed to maintain river water temperatures below 25°C in the Youghiogheny River. In accordance with the Plan, the Permittee monitored water temperature in the Youghiogheny River at the Sang Run Bridge from June 1 through August 31, 2000.

The Permittee released water in accordance with the Water Temperature Enhancement Plan on eight days in 2000. Four of the releases were 2-hours and four were 1-hour in duration. River water temperatures exceeded 25°C on three days in 2000. Temperatures reached a high of 26.4°C on July 2, 26.2°C on July 8 and 26.7°C on August 2. Temperature enhancement releases occurred on July 2 and July 8 in accordance with the Plan. The Plan did not require a temperature enhancement release on August 2. Temperature data collected during 2000 and copies of the daily log sheets for the eight release days and August 2 are included in Appendix B.

1.3 Minimum Flow Release Monitoring

The Permittee operated the flow bypass in accordance with the "Deep Creek Station Flow Bypass Operation Protocol, May 1995". Due to adequate natural river flows, flow bypasses were not required in 2000. A record of the U.S. Geological Survey data from the Oakland gaging station is presented in Appendix C.

1.4 Dissolved Oxygen (DO) Monitoring

The Permittee operated the dissolved oxygen enhancement weir during 2000 in accordance with the "Dissolved Oxygen (DO) Enhancement Operations and

Monitoring Protocol" approved by the Department on January 6, 1995. Data obtained from monitoring DO in 2000 is included in Appendix D.

The Permittee operated the tailrace weir with all gates open until DO levels fell below 6.0 mg/l. This occurred on July 17 when the Permittee measured DO levels of 5.65 mg/l. As a result of the low reading, the Permittee operated the weir with two sluice gates closed and two open about one foot. No other DO measurements were below 6.0 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. One operating rule restricts generation during certain times of the day unless flows suitable for whitewater boating also occur.

The specific criteria for this operating rule:

- apply only from April 15 through October 15,
- apply only when the lake is between the upper and lower rule bands,
- may be suspended during emergency conditions described in Condition 14, and
- prohibit releases between 1600 hours and 0800 hours of the following morning unless:
 1. a release providing 3 consecutive hours suitable for whitewater boating occurs during the 0800 to 1600 hour period immediately preceding the release.
 2. a release providing 3 consecutive hours suitable for whitewater boating occurs during the 0800 to 1600 hour period immediately following the release.

Condition 19 requires the Permittee to document "times and dates when generation releases not suitable for whitewater recreation occurred." Using the criteria above, generation releases not suitable for whitewater recreation did not occur during 2000.

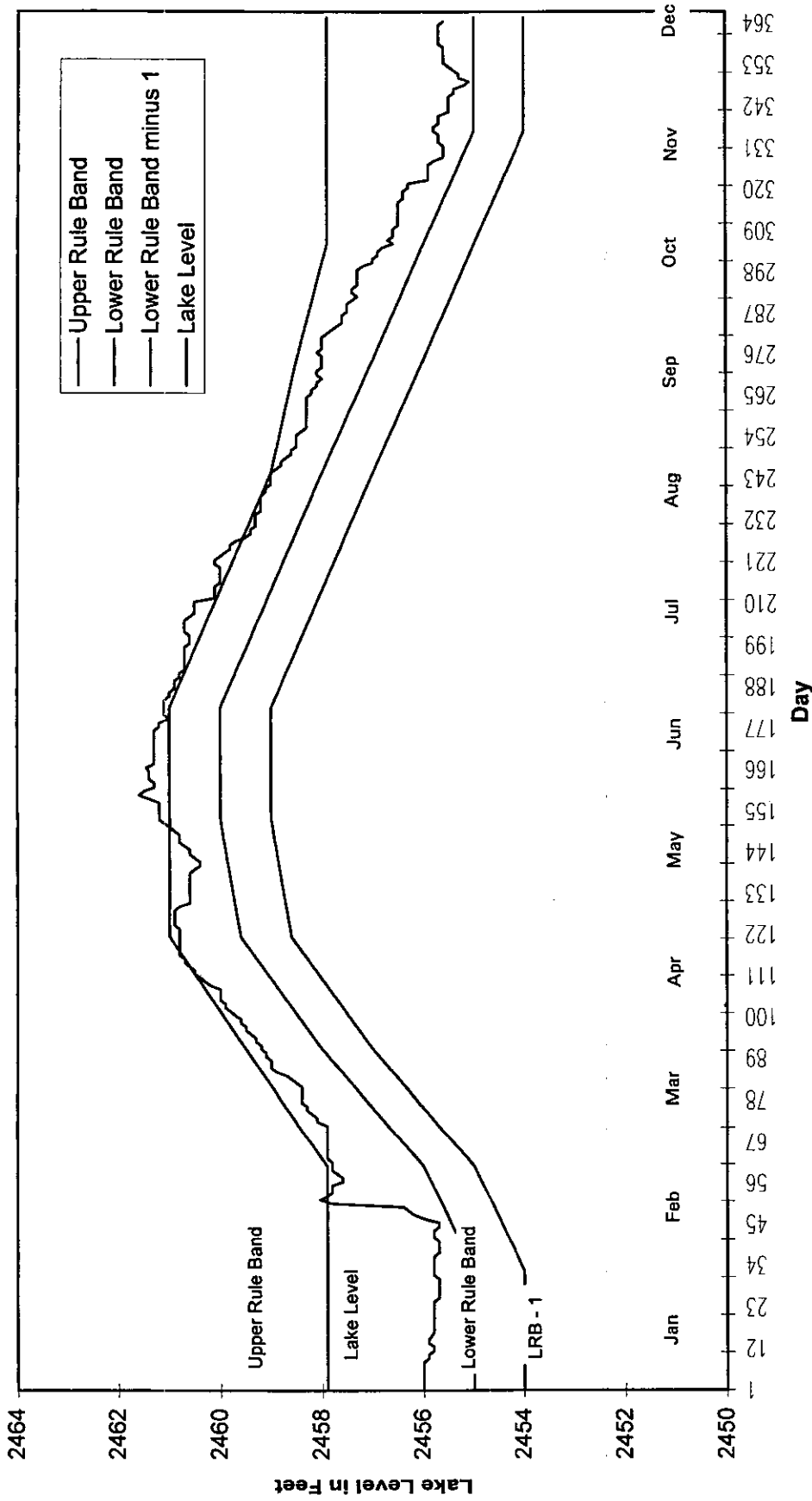
1.6 Zebra Mussel Monitoring

Artificial substrates placed at the station intake area during 2000 showed no signs of the zebra mussel infestation.

APPENDIX A

LAKE LEVEL DATA AND PLOT

Deep Creek Lake Level



Deep Creek Lake Level 2000

Apr		May										Jun																																																																																																																																																																																																																																			
1	2459.2	0	2460.8	0.25	1	2461.2	0	2	2459.3	0.42	2460.8	0.47	2	2461.2	0.2	3	2459.3	0.05	2460.9	0	3	2461.2	0	4	2459.4	0.09	2460.9	0	4	2461.2	0	5	2459.5	0	2460.9	0	5	2461.2	1.9	6	2459.5	0	2460.9	0	6	2461.4	0.28	7	2459.6	0	2460.9	0	7	2461.6	0	8	2459.6	0.6	2460.8	0	8	2461.5	0	9	2459.7	0.15	2460.6	0	9	2461.3	0	10	2459.8	0	2460.6	0	10	2461.3	0	11	2459.9	0.35	2460.6	0	11	2461.4	0	12	2459.9	0.1	2460.6	0	12	2461.4	0.05	13	2460	0	2460.6	0.53	13	2461.4	0.05	14	2460	0	2460.6	0	14	2461.45	0	15	2460	0	2460.6	0	15	2461.3	0.47	16	2460	0	2460.6	0	16	2461.3	0	17	2460.2	0.88	2460.6	0	17	2461.3	0.52	18	2460.3	0.03	2460.5	0	18	2461.3	0.47	19	2460.4	0	2460.4	1.28	19	2461.3	0.09	20	2460.5	0.03	2460.4	0.47	20	2461.3	0	21	2460.5	0.4	2460.5	0.04	21	2461.3	0.6	22	2460.6	0.32	2460.6	0.02	22	2461.3	0	23	2460.7	0.07	2460.6	0.96	23	2461.3	0	24	2460.7	0	2460.7	0.13	24	2461.3	0	25	2460.8	0	2460.8	0	25	2461.2	0.14	26	2460.8	0	2460.8	0	26	2461.2	0.07	27	2460.8	0	2460.8	0.55	27	2461	0.45	28	2460.8	0	2460.9	0.77	28	2461.1	0.02	29	2460.8	0	2461	0.03	29	2461.1	0.05	30	2460.8	0	2461.1	0	30	2461.1	0
Total		3.49	2461.2	5.5	Total		5.36																																																																																																																																																																																																																																								

Deep Creek Lake Level 2000

Month	Day	Lake Level	Rain Fall	Month	Day	Lake Level	Rain Fall	Month	Day	Lake Level	Rain Fall
Jul	1	2461.1	0	Aug	1	2460.1	0	Sep	1	2458.9	0
	2	2461.1	0		2	2460	0		2	2458.8	0.1
	3	2461	0.25		3	2460	0		3	2458.8	0.05
	4	2461	0.05		4	2460	0.15		4	2458.7	0
	5	2460.9	0		5	2460	0.15		5	2458.6	0
	6	2460.9	0.02		6	2460	0		6	2458.6	0
	7	2460.9	0		7	2460.1	1.75		7	2458.5	0
	8	2460.8	0		8	2460.1	0.05		8	2458.5	0
	9	2460.8	0		9	2460	0.5		9	2458.5	0
	10	2460.7	0.55		10	2459.9	0.05		10	2458.5	0.5
	11	2460.7	0.05		11	2459.8	0.05		11	2458.4	0.05
	12	2460.7	0		12	2459.8	0.05		12	2458.3	0.15
	13	2460.7	0		13	2459.7	0		13	2458.3	0
	14	2460.7	0		14	2459.5	0		14	2458.3	0
	15	2460.7	0.8		15	2459.4	0.05		15	2458.3	0.3
	16	2460.7	0.45		16	2459.4	0		16	2458.3	0.15
	17	2460.6	0		17	2459.3	0		17	2458.3	0
	18	2460.6	0		18	2459.3	0.5		18	2458.3	0
	19	2460.6	1.5		19	2459.3	0		19	2458.3	0.15
	20	2460.7	0		20	2459.3	0		20	2458.3	0.15
	21	2460.7	0		21	2459.2	0		21	2458.2	0.05
	22	2460.7	0.05		22	2459.2	0		22	2458.2	0.05
	23	2460.7	0		23	2459.2	0.35		23	2458.1	0.05
	24	2460.6	0.18		24	2459.2	0.05		24	2458.1	0.25
	25	2460.5	0		25	2459.2	0.05		25	2458	2.15
	26	2460.5	0		26	2459.1	0		26	2458.1	0.2
	27	2460.5	0		27	2459.1	0.1		27	2458.1	0
	28	2460.5	0.1		28	2459	0		28	2458	0
	29	2460.1	0.05		29	2459	0		29	2458	0
	30	2460.1	0.1		30	2459	0		30	2458	0
	31	2460.1	1.6		31	2459	0				
Total		5.75		3.85		4.35					

Deep Creek Lake Level 2000

Oct	Nov	Dec	
1	2458	2456.7	0
2	2458.1	2456.6	0
3	2458	2456.6	0
4	2458	2456.6	0
5	2458	2456.5	0
6	2458	2456.5	0
7	2457.9	2456.5	0
8	2457.8	2456.5	0.1
9	2457.7	2456.5	0.25
10	2457.6	2456.5	1.15
11	2457.6	2456.5	0
12	2457.6	2456.4	0
13	2457.5	2456.4	0.1
14	2457.5	2456.4	0
15	2457.5	2456.3	0.05
16	2457.4	2456.3	0
17	2457.3	2455.9	0
18	2457.4	2455.9	0
19	2457.4	2455.9	0
20	2457.3	2455.9	0.05
21	2457.3	2455.9	0
22	2457.3	2455.8	0.15
23	2457.3	2455.6	0
24	2457.3	2455.6	0
25	2457.2	2455.6	0.35
26	2457	2455.6	0.15
27	2457	2455.7	0.2
28	2456.9	2455.7	0
29	2456.9	2455.7	0.2
30	2456.8	2455.8	0.1
31	2456.6		
Total	1.25	2.85	
			2.44
			48.99
			Year Total

APPENDIX B

TEMPERATURE MONITORING AND RELEASE REPORTS

MAXIMUM DAILY RIVER WATER TEMPERATURES

Daily maximum river water temperatures in the Youghiogheny River at Sang Run are presented on the following table. The data were collated and provided by Versar, Inc., consultant to the MDNR Power Plant Assessment Division (PPAD).

The column labeled "SMAX" lists the arithmetic means of the daily maximum water temperatures, in degrees C, measured by two "Tempmentors" placed in the river by the MDNR. The column labeled "PenMAX" lists the maximum water temperatures, in degrees C, measured by the Permittee's temperature monitor at the Sang Run Bridge. PPAD and Versar analyze the data to evaluate the Water Temperature Enhancement Plan used by the Permittee to determine the need and timing of daily temperature releases.

Deep Creek Power Plant made 8 temperature enhancement releases in 2000. Temperatures at Sang Run exceeded 25°C on 3 days during 2000. Copies of the temperature enhancement data sheets for these days are enclosed. The data sheets list the incorrect river flow for the day. River flows logged by the operator and used in the calculations are listed on Table B-2. Days when temperatures exceeded 25°C are listed on Table B-1. Days when temperature enhancement releases were made are summarized in Table B-2.

Table B-1**Summary of Temperatures Exceeding 25 C**

Date	Start Time	Duration	Max Temp (C)
July 2	1540	2 h, 10 min	26.4
July 8	1600	1 h, 30 min	26.2
Aug 2	1440	4 h, 10 min	26.7

Table B-2**Dates & Times of Temperature Enhancement Releases**

Date	Start Time	Duration	River Flow (cfs)
June 21	1100	2 hours	87
June 25	1230	2 hours	94
July 2	1530	1 hour	60
July 4	1100	2 hours	73
July 6	1200	1 hour	62
July 8	1502	1 hour	36
July 9	1230	2 hours	29
August 10	1220	1 hour	99

Deep Creek Station
 Youghiogheny River Temperature Data - 2000

June	Smax	PenSmax	July	Smax	PenSmax	August	Smax	PenSmax
1			1	20.4	21.1	1	24.3	24.8
2			2	26.3	26.4	2	26.3	26.7
3			3	19.7	19.4	3	23.1	23.4
4			4	22.1	22.9	4	22.0	22.4
5			5	23.7	24.7	5	21.5	22.8
6			6	24.5	23.6	6	20.0	20.1
7			7	21.8	22.3	7	20.8	20.8
8		16.0	8	25.5	26.2	8	21.4	21.1
9		19.4	9	24.2	23.8	9	24.5	24.2
10		21.4	10	20.9	21.2	10	24.3	24.1
11		22.7	11	21.5	21.7	11	20.5	20.5
12		20.9	12	20.7	21.6	12	22.9	23.9
13		24.0	13	21.5	22.3	13	21.1	21.4
14		25.0	14	21.9	22.3	14	21.1	21.7
15		22.5	15	22.0	22.6	15	23.5	23.6
16		24.2	16	22.5	22.4	16	22.9	23.1
17		21.4	17	21.2	21.8	17	19.8	20.0
18		21.1	18	23.2	23.5	18	18.6	19.0
19		21.8	19	19.8	20.4	19	22.0	22.4
20	24.2	24.7	20	18.4	19.1	20	22.6	23.6
21	22.3	21.9	21	18.2	19.1	21	21.4	22.3
22	23.0	23.4	22	20.1	20.7	22	23.4	23.9
23	21.3	21.7	23	19.8	19.7	23	19.6	20.5
24	24.1	23.4	24	17.6	18.2	24	21.5	21.6
25	23.6	23.0	25	20.8	20.6	25	20.6	20.4
26	21.9	21.5	26	19.6	20.1	26	23.8	24.4
27	21.4	21.4	27	19.1	19.6	27	20.8	21.3
28	23.6	23.4	28	20.9	20.2	28	20.8	21.6
29	23.3	23.6	29	21.4	21.6	29	20.4	20.7
30	20.7	21.6	30	23.4	22.9	30	21.8	22.1
			31	22.3	21.5	31	20.3	20.6

Youghiogheny River Water Temperature Enhancement Plan

254 = CFS River Flow at Oakland

June 21, 2000

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 < =30	16.86 25.82	No further predictions necessary today Check again at 0900
0900	> 30 < =30	17.34 26.30	No further predictions necessary today Release at 1100 for 2 hours
1100	All	-3.60	No further predictions necessary today
1200	All	2.37	No further predictions necessary today
1400	All	6.25	No further predictions necessary today
1500	All	4.36	No further predictions necessary today

Tair	26.11	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	19.24	River Temp Sang Run @700
T9	19.61	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	254.00	River Flow at Oakland

79
SUNNY

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

Youghiogheny River Water Temperature Enhancement Plan

88 = CFS River Flow at Oakland

June 25, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	23.40	Check again at 0900
	<= 30	25.72	Check again at 0900
0900	> 30	23.57	Check again at 1100
	<= 30	25.89	Check again at 1100
1100	All	25.72	Release at 1230 for 2 hours
1200	All	2.48	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Print Info for file

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.33	River Temp Sang Run @700
T9	19.55	River Temp Sang Run @900
T11	20.97	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	88.00	River Flow at Oakland

82
PTCLDY

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

Youghiogheny River Water Temperature Enhancement Plan

51 = CFS River Flow at Oakland

July 2, 2000

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	24.40	Check again at 0900
	< =30	25.24	Check again at 0900
0900	> 30	24.45	Check again at 1100
	< =30	25.29	Check again at 1100
1100	All	24.17	Check again at 1200
1200	All	24.12	Check again at 1400
1400	All	24.78	Check again at 1500
1500	All	25.75	Release ASAP - not later than 1530 for 1 hour

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	17.00	River Temp Sang Run @700
T9	17.20	River Temp Sang Run @900
T11	18.40	River Temp Sang Run @1100
T12	19.40	River Temp Sang Run @1200
T14	22.21	River Temp Sang Run @1400
T15	24.05	River Temp Sang Run @1500
Q	51.00	River Flow at Oakland

80
SUNNY

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

Youghiogheny River Water Temperature Enhancement Plan

79 = CFS River Flow at Oakland

July 4, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	24.18	Check again at 0900
	< = 30	26.14	Check again at 0900
0900	> 30	24.16	Check again at 1100
	< = 30	26.12	Release at 1100 for 2 hours
1100	All	-2.71	No further predictions necessary today
1200	All	3.03	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print Info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	18.96	River Temp Sang Run @700
T9	19.11	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	79.00	River Flow at Oakland

85
PTCLDY

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

Youghiogheny River Water Temperature Enhancement Plan

45 = CFS River Flow at Oakland

July 6, 2000

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	25.03	Check again at 0900
	< = 30	25.63	Check again at 0900
0900	> 30	24.84	Check again at 1100
	< = 30	25.44	Check again at 1100
1100	All	25.32	Check again at 1200
1200	All	25.53	Release ASAP - not later than 1230 for 1 hour
1400	All	-6.35	No further predictions necessary today
1500	All	-2.20	No further predictions necessary today

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	18.14	River Temp Sang Run @700
T9	18.06	River Temp Sang Run @900
T11	19.74	River Temp Sang Run @1100
T12	21.10	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	45.00	River Flow at Oakland

80
SUNNY

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

Youghiogheny River Water Temperature Enhancement Plan

29 = CFS River Flow at Oakland

July 8, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	24.70	Check again at 0900
	< = 30	24.66	Check again at 0900
0900	> 30	24.88	Check again at 1100
	< = 30	24.84	Check again at 1100
1100	All	23.20	Check again at 1200
1200	All	23.62	Check again at 1400
1400	All	24.80	Check again at 1500
1500	All	25.79	Release ASAP - not later than 1530 for 1 hour

Print Info for file

Tair	25.56	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	16.33	River Temp Sang Run @700
T9	16.66	River Temp Sang Run @900
T11	17.58	River Temp Sang Run @1100
T12	18.93	River Temp Sang Run @1200
T14	22.10	River Temp Sang Run @1400
T15	24.00	River Temp Sang Run @1500
Q	29.00	River Flow at Oakland

78
SUNNY

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

Youghiogheny River Water Temperature Enhancement Plan

26 = CFS River Flow at Oakland

July 9, 2000

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	25.95	Check again at 0900
	< = 30	25.79	Check again at 0900
0900	> 30	25.87	Check again at 1100
	< = 30	25.71	Check again at 1100
1100	All	25.51	Release at 1230 for 2 hours
1200	All	4.60	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	15.98	River Temp Sang Run @700
T9	16.24	River Temp Sang Run @900
T11	18.30	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	26.00	River Flow at Oakland

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

Youghiogheny River Water Temperature Enhancement Plan

86 = CFS River Flow at Oakland

August 2, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30	23.35	Temperature Plan not required today
	< =30	25.59	Temperature Plan not required today
0900	> 30	-0.79	Temperature Plan not required today
	< =30	1.45	Temperature Plan not required today
1100	All	12.43	Temperature Plan not required today
1200	All	11.00	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

Print Info for file

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.98	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	86.00	River Flow at Oakland

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

Youghiogheny River Water Temperature Enhancement Plan

94 = CFS River Flow at Oakland

August 10, 2000.

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	22.41 24.97	No further predictions necessary today Check again at 0900
0900	> 30 <=30	22.67 25.23	No further predictions necessary today Check again at 1100
1100	All	25.14	Check again at 1200
1200	All	25.61	Release ASAP - not later than 1230 for 1 hour
1400	All	-7.10	No further predictions necessary today
1500	All	-2.59	No further predictions necessary today

Tair	28.33	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.17	River Temp Sang Run @700
T9	20.53	River Temp Sang Run @900
T11	21.49	River Temp Sang Run @1100
T12	22.63	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	94.00	River Flow at Oakland

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



APPENDIX C

FLOW BYPASS OPERATION RECORD

FLOW BYPASS OPERATION

The flow bypass protocol requires the Permittee to maintain a minimum flow of 40 cfs in the Youghiogheny River immediately downstream of the tailrace. Starting June 1 and continuing through November 30, the Permittee monitors the river flows at the Oakland gage. When flows at the Oakland gage fall below 26 cfs, the Permittee may be required to open a bypass valve to release enough water to maintain 40 cfs in the river immediately below the tailrace.

The following table summarizes flow bypass data for June through November 2000, when flows in the Youghiogheny River were less than 26 cfs. Flow data were obtained from the USGS recording at the Oakland gage, direct readings from the USGS Oakland gage or from the tailrace gage at the station, per guidance provided in the protocol. Valve opening was determined from Table 3 of the protocol based on station operating status.

Data from the USGS gaging station at Oakland also are provided. Data for the period of October 1, 2000 through the end of the year are provisional data. USGS data represent daily mean flows and may not agree with instantaneous data collected by the Permittee throughout the year.

**Deep Creek Station
Flow Bypass Operation - 2000**

			Bypass Operation	
Month	Day	Flow at Oakland	Bypass Flow	% Open
Sept	9	24	0	CLOSED
Sept	10	23	0	CLOSED
Sept	15	24	0	CLOSED
Sept	18	24	0	CLOSED
Sept	19	23	0	CLOSED
Sept	22	23	0	CLOSED
Sept	23	21	0	CLOSED
Sept	24	20	0	CLOSED
Oct	27	0	0	CLOSED

03075500 UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION STATE 24 DIST 24
 YOUGHIOGHENY RIVER NEAR OAKLAND, MD PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE RATINGS USED
 OUTPUT PARAMETER 00060 STORE STATISTIC(S) 00003 DATE PROCESSED: 01-12-2001 @ 14:26 BY jeffries STNRD. 18.0 03/18/1999 (2315)
 PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001 INPUT DD: SAT-GMT TEST DIFF: ***** FENCH INTERVAL: 60 MIN

Provisional

DATE	MAX GH /DISCH <TIME>	MIN GH /DISCH <TIME>	MEAN GH	MEAN DISCH	SHIFT ADJ	DATUM CORR	STAGE, IN HUNDRETHS OF FEET, AT INDICATED HOURS	STAGE, IN HUNDRETHS OF FEET, AT INDICATED HOURS
10/01/2000	99 2.36	81 2.29	2.33	91	0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200	1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
10/02/2000	<0000> <2400>	82 2.29	2.24	77	0.00W		236 236 235 235 235 234 234 234 233 233 233 233	232 232 232 231 231 231 231 231 230 230 229 229
10/03/2000	81 2.24	62 2.20	2.23	67	0.00W		228 228 228 228 228 228 228 228 228 228 228 228	227 227 227 227 227 227 227 227 225 225 224 224
10/04/2000	70 2.24	54 2.16	2.18	59	0.00W		224 224 224 224 224 224 224 224 223 223 223 223	223 222 222 222 222 222 221 221 221 221 221 220 220
10/05/2000	62 2.20	54 2.16	2.20	61	0.00W		220 220 220 220 220 220 220 220 220 220 220 220	219 219 218 218 217 217 217 217 216 216 216 216
10/06/2000	66 2.22	54 2.16	2.18	58	0.00W		216 216 216 216 216 216 216 216 216 216 216 216	222 222 222 221 221 220 220 220 220 220 220 220
10/07/2000	<0000> <1759>	62 2.17	2.08	45	0.00W		220 220 220 220 220 220 220 220 219 219 219 219	217 217 217 217 217 216 216 216 216 216 217 217
10/08/2000	56 2.08	39 2.06	2.07	38	0.00W		216 216 216 216 216 216 216 216 213 213 213 213	211 210 210 210 209 209 209 209 209 209 208 208
10/09/2000	<0000> <1659>	39 2.07	2.05	37	0.00W		208 208 208 208 208 208 208 208 208 208 208 208	207 207 207 207 207 206 206 206 206 206 206 206
10/10/2000	38 2.07	38 2.07	2.07	38	0.00W		206 206 206 206 206 206 206 206 205 205 205 205	207 207 207 207 207 206 206 206 207 207 207 207
10/11/2000	38 2.07	35 2.05	2.06	36	0.00W		207 207 207 207 207 207 207 207 207 207 207 207	207 207 207 207 207 207 207 207 207 207 207 207
10/12/2000	<0000> <2400>	35 2.05	2.03	33	0.00W		206 206 206 206 206 206 206 206 206 206 206 206	206 205 205 205 205 205 205 205 205 205 205 205
10/13/2000	32 2.03	28 2.00	2.02	30	0.00W		204 204 204 204 204 204 204 204 204 204 204 204	205 205 204 204 204 204 204 204 203 203 203 203
10/14/2000	<0000> <1859>	32 2.03	2.00	28	0.00W		203 203 203 203 203 203 203 203 203 203 203 203	202 202 201 201 201 201 201 201 200 200 200 200
10/15/2000	28 2.00	28 2.00	2.00	28	0.00W		200 200 200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200 200 200
10/15/2000	<0000> <1359>	28 2.00	1.99	28	0.00W		200 200 200 200 200 200 200 200 200 200 200 200	200 199 199 199 199 199 199 199 199 199 199 199

DATE	MAX GH /DISCH	MIN GH /DISCH	MEAN GH	MEAN DISCH	SHIFT ADJ	DAUOM CORR	STAGE, IN HUNDRETHS OF FEET, AT INDICATED HOURS	STAGE, IN HUNDRETHS OF FEET, AT INDICATED HOURS
11/15/2000	2.33	2.27	2.30	86	0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200	1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
11/16/2000	2.27	2.24	2.25	74	0.00W		227 227 227 227 227 226 226 226 226 226 226 226 226 226 226	225 225 225 225 225 224 224 224 224 224 224 224 224 224 224
11/17/2000	2.24	2.23	2.24	70	0.00W		224 224 224 224 224 224 224 224 224 224 224 224 224 224 224	224 224 224 223 223 223 223 223 223 223 223 223 223 223 223
11/18/2000	2.23	2.19	2.21	63	0.00W		222 222 222 222 222 222 222 222 222 221 221 221 221 221 221	220 220 220 220 220 220 220 220 220 219 219 219 219 219 219
11/19/2000	2.19	2.16	2.18	57	0.00W		219 219 219 219 219 219 219 219 219 218 218 218 218 218 218	217 217 217 217 217 217 217 217 217 217 217 217 217 217 217
11/20/2000	2.21	2.09	2.16	53	0.00W		216 216 216 216 216 216 216 216 216 216 216 216 216 216 216	221 221 221 221 221 217 217 217 217 217 217 217 217 217 217
11/21/2000	2.19	2.12	2.16	53	0.00W		215 215 215 215 215 215 215 215 215 214 214 214 214 214 214	218 218 218 218 218 219 219 219 219 219 219 219 219 219 219
11/22/2000	2.19	2.11	2.15	53	0.00W		214 214 214 214 214 214 214 214 214 213 213 213 213 213 213	216 217 217 217 217 218 218 218 218 219 219 219 219 219 219
11/23/2000	2.16	2.14	2.15	52	0.00W		216 216 216 216 216 216 216 216 216 216 216 216 216 216 216	216 216 216 216 216 216 216 216 216 215 215 215 215 215 215
11/24/2000	2.15	2.12	2.13	48	0.00W		215 215 215 215 215 215 215 215 215 214 214 214 214 214 214	214 215 215 215 215 212 212 212 212 212 212 212 212 212 212
11/25/2000	2.20	2.12	2.14	50	0.00W		212 212 212 212 212 212 212 212 212 212 212 212 212 212 212	213 213 213 213 213 214 214 214 214 216 216 216 216 216 216
11/26/2000	2.89	2.20	2.45	125	-0.021W		220 221 223 223 224 227 228 228 228 228 228 228 228 228 228	245 248 251 253 256 258 263 267 272 277 283 289 289 289
11/27/2000	3.16	2.89	3.09	375	-0.06W		293 297 300 303 304 306 308 308 309 311 312 313 313 313	315 315 315 315 315 315 315 314 313 312 312 312 311 309 309
11/28/2000	3.09	2.83	2.95	296	-0.06W		308 307 305 304 303 301 300 299 297 296 296 296 296 294	293 292 291 290 289 288 287 286 285 285 284 284 283 283
11/29/2000	3.04	2.73	2.77	223	-0.05W		282 281 281 280 279 279 278 278 277 276 276 276 275 274	273 273 273 273 274 275 275 275 277 277 279 280 283 284 284

PROVISIONAL

03075500
 YOUGHIOGHEBY RIVER NEAR OAKLAND, MD
 OUTPUT PARAMETER 00060 STORED STATISTIC(S) 00003
 PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION STATE 24 - DIST 24
 PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE RATINGS USED
 DATE PROCESSED: 01-12-2001 @ 14:26 BY jef/jes STNRD 18.0 03/18/1999 (2315)
 INPUT DD: SAT-CMT TEST DIPS: ***** PUNCH INTERVAL: 60 MIN

DATE	MAX CH /DISCH /<TIME>	MIN CH /DISCH /<TIME>	MEAN CH	MEAN DISCH	MEAN GE	SHIFT ADJ	DAVTM CORR	STAGE, IN HUNDRETHS OF FEET, AT INDICATED HOURS
11/30/2000	3.00	2.82	2.91	280		-0.06W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	317	241						287 291 293 295 297 299 300 300 299 298 296 295 293 292 291 289 288 287 286 285 284 284 283 282
	<0659>	<2400>						
11/01/2000	2.82	2.72	2.76	216		-0.04W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	241	203						281 281 280 279 279 278 277 277 276 276 276 275 275 274 273 273 273 273 272 272 272 272 272 272
	<0000>	<2400>						
11/02/2000	2.72	2.63	2.67	188		-0.03W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	203	173						271 271 271 270 270 269 269 268 268 268 268 268 267 267 267 266 265 265 265 264 264 264 264 263
	<0000>	<2359>						
12/03/2000	2.63	2.50	2.57	156		-0.02W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	173	133						263 262 262 261 260 260 258 257 256 255 251 250 250 253 257 259 259 257 256 257 258 259 260 261
	<0000>	<1159>						
12/04/2000	2.67	2.37	2.58	159		-0.02W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	188	101						262 264 266 267 264 261 259 259 257 246 237 246 252 256 260 263 264 264 262 260 258 256 255 254
	<0359>	<1059>						
12/05/2000	2.54	2.43	2.48	129		-0.02W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	145	115						253 253 252 251 251 251 250 249 249 248 248 249 248 249 249 249 248 248 248 244 244 243 243 243
	<0000>	<1959>						
12/06/2000	2.50	2.38	2.43	115		-0.01W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	133	104						244 244 243 242 241 240 240 240 240 239 238 239 243 245 248 248 250 249 248 245 243 240 240 239 239
	<1559>	<0959>						
12/07/2000	2.43	2.35	2.39	105		0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	115	97						239 238 238 237 236 236 235 235 235 236 236 237 239 241 242 243 243 241 240 240 240 240 240 240
	<1559>	<0659>						
12/08/2000	2.40	2.37	2.39	105		0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	106	101						240 240 240 240 239 239 239 239 239 239 239 240 239 239 239 239 238 238 238 238 237 237 237 237
	<0000>	<2400>						
12/09/2000	2.37	2.29	2.34	95		0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	101	82						236 236 236 236 235 235 235 235 235 235 235 235 235 235 235 235 234 234 233 233 233 231 231 230
	<0000>	<2400>						
12/10/2000	2.38	2.20	2.29	83		0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	104	62						228 227 226 224 223 221 220 220 220 220 220 226 229 233 236 238 238 237 236 236 236 235 234 232
	<1559>	<0659>						
12/11/2000	2.34	2.31	2.31	88		0.00W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	94	87						232 231 231 231 231 231 231 231 231 231 231 231 231 231 231 231 232 232 232 232 232 232 233 234
	<2400>	<0159>						
12/12/2000	2.66	2.34	2.53	144		-0.02W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	184	94						235 236 238 239 240 241 243 244 247 250 253 256 259 261 264 265 266 266 265 265 265 265 263 260
	<1659>	<0000>						
12/13/2000	2.64	2.27	2.48	130		-0.01W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	177	78						255 252 247 242 237 232 229 227 227 227 230 235 241 247 253 257 262 264 263 261 259 257 255 254 255
	<1659>	<0759>						
12/14/2000	4.53	2.55	3.84	983		-0.01W		0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
	1470	149						256 260 264 271 281 299 323 352 382 424 428 449 453 452 453 452 452 449 445 441 436 430 425 419
	<1259>	<0000>						

Provisional

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION STATE 24 DIST 24
 PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE RATINGS USED --
 DATE PROCESSED: 01-12-2001 @ 14:26 BY Jeffries STWRD 18.0 03/18/1999 (2315)
 INPUT DD: SAT-GHT TEST DIFF: ***** PUNCH INTERVAL: 60 MIN
 YOUNGBLOCHERY RIVER NEAR OAKLAND, MD
 OUTPUT PARAMETER 00060 STORE STATISTIC(S) 00003
 PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

DATE	MAX GH /DISCH	MIN GH /DISCH	MEAN GH	MRAN DISCH	SHIFT ADJ	STAGE, IN HUNDRETHS OF FEET, AT INDICATED HOURS	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200
12/15/2000	4.19	3.52	3.78	938	0.00W	1100	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2400
	1130	777				414	410	407	403	399	394	391	387	384	380	377	374	374
	<0000>	<2400>				171	369	367	364	363	361	360	358	356	355	353	352	352
12/16/2000	3.52	3.34	3.40	614	-0.01W	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2400
	737	563				350	348	346	344	343	342	340	339	337	336	335	335	335
	<0000>	<1259>				334	334	334	335	336	336	337	339	340	343	345	348	348
12/17/2000	3.91	3.48	3.75	915P	0.00W	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2400	2400	2400
	1040	693				352	386	388	390	391	390	389	387	385	383	380	380	380
	<1759>	<0000>				378	375	372	371	368	366	364	362	360	359	357	356	356
	960	625				354	352	351	350	348	347	346	345	344	343	342	341	341
12/18/2000	3.80	3.41	3.57	769	0.00W	1700	1800	1900	2000	2100	2200	2300	2400	2400	2400	2400	2400	2400
	<0000>	<2400>				340	339	338	337	336	336	335	334	333	332	332	331	331
	625	449				331	329	329	328	327	326	325	324	323	323	321	320	320
	<0000>	<2359>				320	319	317	316	315	314	312	310	308	307	305	304	304
	449	343				304	305	306	306	307	310	311	313	315	316	316	315	315
	<0000>	<1159>				314	313	312	312	312	312	312	313	313	314	315	305	293
	410	282				295	299	303	307	308	306	304	304	301	298	296	293	292
	<0959>	<2400>				291	289	288	287	286	285	284	283	282	281	280	280	280
	282	162				279	279	280	279	278	276	275	272	269	264	262	260	260
	<0000>	<2400>				258	256	257	257	257	255	257	256	255	259	259	262	262
	220	149				265	267	271	274	276	276	276	276	275	273	272	272	272
	<1659>	<0559>				271	271	271	271	271	271	270	268	268	267	267	267	267
	203	166				268	269	269	270	269	267	265	264	263	262	261	261	261
	<0000>	<2400>				260	260	260	259	257	256	255	254	253	251	250	251	251
	166	133				253	254	256	256	255	255	255	254	253	252	251	250	250
	<0000>	<1059>				250	249	248	247	247	246	246	245	245	245	245	245	248
	136	120				251	251	251	251	251	251	251	251	251	250	249	249	249
	<1259>	<0759>				248	248	248	248	248	248	248	248	248	248	248	248	248
	130	126				248	248	248	248	248	248	248	248	248	248	247	247	247
	<0059>	<2159>				247	247	247	247	246	246	246	246	246	246	246	246	247
	126	115				247	247	247	247	245	245	245	244	244	244	243	243	243
	<0000>	<2259>				243	242	242	242	241	241	241	241	241	240	240	241	242
	115	106				242	241	241	241	241	241	241	241	241	241	240	240	240
	<0000>	<0759>																

PROVISIONAL



APPENDIX D

RECORD OF
DISSOLVED OXYGEN MONITORING

DISSOLVED OXYGEN MONITORING LOG

(Instrument Calibrated to 2000 ft. MSL)

DATE	INSTRUMENT CALIBRATION		DO MEASUREMENTS		NO. UNITS GENERATING	TIMES OF GENERATION	SLIUCE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATI TAILRAC ELEV
	TIME	TEMP °C	DO (mg/l)	DOWNSTREAM FROM WEIR					
6-1-00					1 @ 100%	12:21 TO 12:27	All OPEN	2022.6	2028.
6-2	10:25	26.8	7.04	10:30	2 @ 100%	13:57 TO 19:57	"	2022.3	2028.
6-3		STATION NOT ATTENDED			2 @ 100%	10:00 TO 13:00 13:30/13:31 - 14:12/20:14 UNscheduled 10:00 - 13:00	"		
6-4		"	"				"		
6-5	10:25	22.2	7.89	10:30	2 @ 100%	10:00 TO 24:00 UNscheduled	"	2022.1	2028.
6-6					2 @ 100%	09:00 - 24:00 UNscheduled	"		2028.1
6-7					2 @ 100%	09:00 - 24:00 UNscheduled	"		2028.1
6-8					2 @ 100%	UNscheduled 20:00 - 24:00	"		2028.
6-9					2 @ 100%	09:00-27:05 UNscheduled 10:00-13:00 UNscheduled	"	2023.1	2028.1
6-10		STATION NOT ATTENDED				NONE	"	2023.1	
6-11					2 @ 100%	16:10 - 19:40 UNscheduled 20:45 - 22:00 UNscheduled	"	2023.1	2028.1
6-12	10:25	28.8	7.05	10:30	2 @ 100%	10:00 - 13:00	"	2022.3	2028.1
6-13							"		
6-14					2 @ 100%	NONE	"	2022.3	
6-15					2 @ 100%	17:50 - 24:00 UNscheduled 24:00 - 07:00 21:07 - 21:24 UNsched-	"	2022.3	2028.
6-16	10:25	29.3	6.95	10:30	2 @ 100%	10:00 - 13:00	"	2022.3	2028.1
6-17		STATION NOT ATTENDED			2 @ 100%	11:03 - 13:03 UNscheduled	"	2022.3	2028.1
6-18					2 @ 100%	15:00 - 17:00 UNscheduled	"	2022.3	2028.1
6-19	10:25	7.52	25.2	10:30	2 @ 100%	10:00 - 13:00	"	2022.3	2028.1
6-20					2 @ 100%	UNscheduled 16:38 - 17:00 Both	"	2022.2	2028.1

JUN 21 2000

JUN 21 2000 DISSOLVED OXYGEN MONITORING LOG

(Instrument Calibrated to 2000 ft. MSL)

10/02 '00 09:01

ID:SI THE

FAX:301-387-5809

PAGE

7

DATE	INSTRUMENT CALIBRATION		DO MEASUREMENTS		NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (mg/l)	TIME					
6-21					2 @ 100%	11:00 - 18:00 unscheduled	All open	2022.2	2028.1
6-22					—	NONE	All open	2022.2	—
6-23	10:25	26.5	7.44	10:35	2 @ 100%	10:00 - 13:00	All open	2022.2	2028.1
6-24			station	NOT ATTENDED	2 @ 100%	13:00 - 15:30 unscheduled	All open	2022.2	2028.1
6-25					2 @ 100%	12:30 - 14:30 unscheduled	All open	2022.2	2028.1
6-26	10:25	27.4	7.55	10:35	2 @ 100%	10:00 -	All open	2022.1	2028.1
6-27					—	NONE	All open	2022.0	—
6-28					—	NONE	All open	2022.1	—
6-29					—	NONE	All open	2022.1	—
6-30	10:25	23.9	7.81	10:35	2 @ 100%	10:00 - 13:00	All open	2022.1	2028.1
7-1			station	UN ATTENDED	2 @ 100%	10: - 13:00	All open	2022.0	—
7-2					2 @ 100%	15:30 - 16:33 unscheduled	All open	2022.0	—
7-3	10:25	26.5	7.33	10:30	2 @ 100%	10:00 - 13:00	All open	2021.8	2028.1
7-4					2 @ 100%	11:00 to 13:00 unscheduled	All open	2021.8	2028.1
7-5					2 @ 100%	11:06 - 11:49 unscheduled	All open	2021.8	2028.1
7-6					2 @ 100%	12:00 - 13:00 unscheduled	All open	2021.8	2028.1
7-7	10:25	23.0	7.48	10:33	2 @ 100%	10:00 - 13:00 13:30 - 13:53 unscheduled	All open	2021.8	2028.1
7-8			station	UN ATTENDED	2 @ 100%	15:00 - 16:00 unscheduled	All open	2021.8	2028.1
7-9					2 @ 100%	12:30 - 14:30 unscheduled	All open	2021.8	2028.1
7-10	10:25	24.9	7:52	10:30	2 @ 100%	10:00 - 13:00 unscheduled	All open	2021.7	2028.1

DISSOLVED OXYGEN MONITORING LOG

(Instrument Calibrated to 2000 ft. MSL)

TE	INSTRUMENT CALIBRATION			DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
7-11									All open	2024.9	
7-12									All open	2023.5	
7-13							2 @ 100%	10:38-11:01 1304-1339 20:38-21:35 10:00-13:00	All open	2022.6	2028.1
7-14	10:25	22.0	8.07	10:30	16.2	6.02	2 @ 100%		All open	2022.2	2028.1
7-15			Station	ATTENDED					All open		
7-16									All open		
7-17	10:25	20.8	8.31	10:30	16.5	5.65	2 @ 100%	10:00 13:05 20:45 21:00	All open	2022.2	2028.1
7-18									All open		
7-19									All open		
7-20									All open		
7-21	10:15	18.8	8.61	10:25	16.6	7.22	2 @ 100% Unscheduled	09:25-15:15	All open	2022.2	2028.1
7-22			Station	Unattended					All open		
7-23									All open		
7-24	10:30	22.0	8.11	10:35	16.9	7.07	2 @ 100%	10:00-13:00	All open	2022.2	2028.5
7-25									All open		
7-26							2 @ 100%	08:05-08:13 Unscheduled	All open	2022.1	2028.5
7-27							2 @ 100%	08:14-22:00 Unscheduled	All open	2022.0	2028.5
7-28	10:30	22.8	8.31	10:35	17.3	6.85	2 @ 100%	10:00-13:00 Sched. 13:00- Unsch.	All open	2022.0	2028.5
7-29			Station	Unattended					All open		
7-30									All open		

DISSOLVED OXYGEN MONITORING LOG

(Instrument Calibrated to 2000-ft. MSL)

DATE	INSTRUMENT CALIBRATION CAL. HEADINGS		DO MEASUREMENTS DOWNSTREAM FROM WEIR		NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (mg/L)	TEMP °C					
7-31	10:25	26.7	7.44	10:30	17.4	6.83	2 @ 100% 2 closed	2022.1	2028.5
8-1							2 open 1 FT	2022.4	
8-2							2 closed	2022.1	
8-3							2 open 1 FT	2021.9	
8-4	10:25	25.5	7.59	10:30	17.3	6.54	2 @ 100% 2 closed	2022.5	2028.5
8-5			STATION				2 open 1 FT		
8-6			UN ATTENDED				2 closed		
8-7	10:25	26.9	7.38	10:30	17.0	6.37	2 @ 100% 2 closed	2022.6	2028.5
8-8							2 open 1 FT	2022.2	2028.5
8-9							2 closed	2022.0	2028.5
8-10							2 open 1 FT	2022.1	2028.5
8-11	10:20	23.2	7.86	10:25	17.8	6.68	2 @ 100% 2 closed	2022.0	2028.5
8-12			STATION				2 open 1 FT		
8-13			UN ATTENDED				2 closed		
8-14	10:25	21.3	8.06	10:30	18.3	6.16	2 @ 100% 2 closed	2021.9	2028.5
8-15							2 open 1 FT	2021.8	2028.5
8-16							2 closed	2021.8	2028.5
8-17							2 open 1 FT	2021.8	2028.5
8-18	10:25	26.7	7.28	10:30	18.8	6.49	2 @ 100% 2 closed	2021.8	2028.5
8-19			STATION				2 open 1 FT		

JUL 31 2000

AUG 1 2000

DISSOLVED OXYGEN MONITORING LOG

DEEP CREEK STATION

LOG

DATE	INSTRUMENT CALIBRATION		DO MEASUREMENTS		NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (MG/L)	DOWNSTREAM FROM WEIR					
8-20					2@ 100%	20:23 - 20:28 UNscheduled	2 closed	2021.8	2028.5
8-21	10:25	22.8	7.95	10:30	2@ 100%	10:00 - 13:00	2 open 1FT 2 closed	2021.8	2028.5
8-22							2 open 1FT 2 closed	2021.7	
8-23					2@ 100%	14:00 14:17 UNscheduled	2 open 1FT 2 closed	2021.7	
8-24							2 open 1FT 2 closed	2021.8	
8-25	10:25	21.8	7.74	10:30	2@ 100%	10:00 - 18:00	2 open 1FT 2 closed	2021.8	2028.5
8-26			Station			17:15 - 18:15 UNscheduled	2 open 1FT 2 closed	2021.8	2028.5
8-27							2 open 1FT 2 closed		
8-28	10:25	22.4	8.04	10:30	2@ 100%	10:00 - 13:10	2 open 1FT 2 closed	2021.7	2028.5
8-29							2 open 1FT 2 closed	2021.7	
8-30							2 open 1FT 2 closed	2021.7	
8-31	09:25	25.5	7.56	09:30	2@ 100%	09:00 - 15:00 Scheduled	2 open 1FT 2 closed	2021.7	2028.5
9-1	10:25	24.3	7.75	10:30	2@ 100%	10:00 - 13:00 UNscheduled	2 open 1FT 2 closed	2021.7	2028.5
9-2					2@ 100%	10:00 - 16:00	2 open 1FT 2 closed	2021.7	2028.5
9-3					2@ 100%	12:00 - 16:20	2 open 1FT 2 closed	2021.7	2028.5
9-4					2@ 100%	UNscheduled	2 open 1FT 2 closed	2021.7	2028.5
9-5						10:00 - 15:00	2 open 1FT 2 closed	2021.7	2028.5
9-6							2 open 1FT 2 closed	2021.8	
9-7					2@ 100%	14:38 - 20:17 UNscheduled	2 open 1FT 2 closed	2021.8	2028.5
9-8	10:25	24.6	7.81	10:30	2@ 100%	10:00 - 13:00	2 open 1FT 2 closed	2021.8	2028.5

SEP 08 2000

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DEEP CREEK STATION
DISSOLVED-OXYGEN-MONITORING-LOG

(Instrument Calibrated to 2000 ft. MSL)

DATE	INSTRUMENT CALIBRATION		DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C					
9-9			STATION	NOT				2 closed	2021.8	
9-10			ATTENDED					2 open 1 FT 2 closed		
9-11	10:25	25.6	7.58	10:30	17.1	2 @ 100%	18:00 - 13:00 scheduled 18:00 - 14:00 unscheduled	2 closed 2 open 1 FT	2021.8	2028.5
9-12						2 @ 100%	10:26 - 10:40 12:56 - 10:00 unscheduled	2 closed 2 open 1 FT	2021.8	2028.5
9-13								2 closed 2 open 1 FT	2021.8	
9-14								2 closed 2 open 1 FT	2021.7	
9-15	10:25	20.2	8.30	10:30	18.8	2 @ 100%	10:00 - 1:30	2 closed 2 open 1 FT	2021.7	2028.5
9-16			station					2 closed 2 open 1 FT		
9-17			UN ATTENDED					2 closed 2 open 1 FT		
9-18	10:40	19.6	8.44	10:45	18.1	2 @ 100%	10:00 - 13:00	2 closed 2 open 1 FT	2021.7	2028.5
9-19						2 @ 100%	19:15 - 19:55 UN scheduled	2 closed 2 open 1 FT		
9-20						2 @ 100%	10:00 - 13:00 15:25 - 17:25 UN scheduled	2 closed 2 open 1 FT	2021.7	2028.5
9-21								2 closed 2 open 1 FT	2021.7	
9-22	10:25	20.8	8.26	10:30	17.9	2 @ 100%	09:55 - 13:00	2 closed 2 open 1 FT	2021.6	2028.5
9-23			station	NOT				2 closed 2 open 1 FT		
9-24			ATTENDED					2 closed 2 open 1 FT		
9-25	10:25	23.5	7.86	10:30	18.1	2 @ 100%	14:10 - 15:00 850-1710 18:55 - 20:00 10:00 - 13:00 19:00 20:00	2 closed 2 open 1 FT	2021.6	2028.5
9-26								2 closed 2 open 1 FT	2024.0	
9-27						2 @ 100%	14:48 - 15:20	2 closed 2 open 1 FT	2023.0	2028.5
9-28								2 closed 2 open 1 FT	2022.5	

SEP 09 2000 SEP 28 2000

